This report is required by law (7 USC 2143). Failure to report according to the regulations can result in an order to cease and desist and to be subject to penalties as provided for in Section 2150.

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE See reverse side for additional information. Interagency Report Control No 0180-DOA-AN

1. REGISTRATION NO.

CUSTOMER NO. 1839

FORM APPROVED OMB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY

2. HEADQUARTERS RESEARCH FACILITY (Name and Address, as registered with USDA, CALIFORNIA STATE UNIVERSITY FULLERTON C/O OFFICE OF GRANTS & CONTRACTS, MH-112 include Zip Code) P.O. BOX 6850 FULLERTON, CA 92834

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets if necessary.) sheets if necessary.)

CALIFORNIA STATE UNIVERSITY FULLERTON

RT OF ANIMALS USED BY OR I Animals Covered By The Animal Welfare Regulations	UNDER CONTROL OF RI Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	ESEARCH FACILITY (A Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain- relieving drugs.	Attach additional sheets if necessar D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching. experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report)	TOTAL NO. OF ANIMALS (Cols. C + D + E)
Dogs			72		
Cats	-				-
. Guinea Pigs	+				+
7. Hamsters	+				-
8. Rabbits		1	+		-
9. Non-Human Primates		1-			
10. Sheep		-	-		
11. Pigs 12. Other Farm Animals		+			
12. Onto		+			176
13. Other Animals		-	176		271
thirteen-lined ground squ	uirrel	-	271		14
Northern grasshopper n		-	141	ropriate use of anesthetic, analgesic, and tranquilizing drug earch facility.	s prior to, during,

Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following acceptable standards governing the care, treatment, and use of animals, including appropriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following acceptable standards governing the care, treatment, and use of animals, including appropriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following acceptable standards governing the care, treatment, and use of animals, including appropriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following acceptable standards governing the care, treatment, and use of animals, including appropriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following acceptable standards governing the care, treatment, and use of animals, including appropriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following acceptable standards governing the care, treatment, and use of animals, including appropriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and tranquilizing drugs, Professionally acceptable standards governing the care, treatment, and use or animals, including appropriate use of animals, and animals, animals, and animals, and animals, and animals, and animals, and an ASSURANCE STATEMENTS

- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the propriet investigator and approved by the localitational Animal Care and Lies Committee (IACLIC). A summary of all the exceptions is attached to this annual report. This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the institutional Animal Care and Use Committee (IACUC). A summary of all the exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected. 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other assects of animal care and use

3	principal investigator and approved exceptions, the principal investigator and approved exceptions, the addition to identifying the IACUC-approved exceptions, the addition to identifying the IACUC-approved exceptions, the principal investigation of the IACUC approved exceptions, the IACUC approved exceptions and the IACUC approved exceptions and the IACUC approved exceptions, the IACUC approved exceptions are the IACUC approved exceptions and the IACUC approved exceptions are the IACUC approved exceptions and the IACUC approved exceptions are the IACUC approved exceptions and IACUC approved exceptions are the IACUC approved except	ority to ensure the provision of a	FARCH FACILITY OFFICIAL		
	The attending veterinarian for this research spects of animal care and use. CERTIFICATION BY	HEADQUARTERS RES	EARCH FACILITY OFFICIAL nsible Institutional official) plete (7 U.S.C. Section 2143) OR INSTITUTIONAL OFFICIAL (Oried) D	ATE SIGNI
_	(Chief Executive	ove is true, correct, and com-	SO INSTITUTIONAL OF TO.		11/29/200
	Cetting and Cettin	NAME & TITLE OF O.E.C.	lege of Natural Sciences and Matt	PART 1 - HEA	DOUART
s	GNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL	Kolf Jayaweera, Dean, Co		PART 1 - HEA	J ust
\K	olf Jayaweera (Replaces VS FORM 18-23 (Oct 88), wi	hich is obsolete			
L	(Replaces VS FORM 10 23				

This report is required by law (7 USC 2143). Failure to report according to the regulations can result in an order to cease and desist and to be subject to penalties as provided for in Section 2150.

See reverse side for additional information. Interagency Report Control No 0180-DOA-AN

UNITED STATES DEPARTMENT OF AGRICULTURE UNITED STATES DEFARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION SERVICE REGISTRATION NO. 93-R-0416

CUSTOMER NO. 1839

FORM APPROVED OMB NO. 0579-0036

CONTINUATION SHEET FOR ANNUAL REPORT OF RESEARCH FACILITY

2. HEADQUARTERS RESEARCH FACILITY (Name and Address, as registered with USDA, CALIFORNIA STATE UNIVERSITY FULLERTON include Zip Code) C/O OFFICE OF GRANTS & CONTRACTS, MH-112 P.O. BOX 6850 FULLERTON, CA 92834

Animals Covered By The Animal Welfare Regulations	DR UNDER CONTROL OF R B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of armsets, which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report)	13
			13		8
estern harvest mouse			8		2
ains harvest mouse	-		2		2
airie vole			2		8
ouse mouse		 	8		24
ispid pocket mouse	-	+	24		43
silky pocket mouse		+	43		
Ord's kangaroo rat		+			
	-		-		
		1			
					-
		1			

- 1) Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research teaching testing surgery or experimentation were followed by this research facility requessionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of animals, and including appropriate use of animals, and including appropriate use of animals, and animals, ani ASSURANCE STATEMENTS

 - 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). A summary of all the exceptions is attached to this annual report. In principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). A summary of all the exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.
 - 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

	addition to identifying the IACUC-approved except has appropriate author	ority to ensure the provision of design		
	addition to identifying the IACUC-approved except and did addition to identifying the IACUC-approved except the appropriate authors. 4) The attending veterinarian for this research facility has appropriate authors aspects of animal care and use.			
_	CERTIFICATION BY	HEADQUARTERS RESEARCH FACILITY History or Legally Responsible Institutional official) History of the Complete (7 U.S.C. Section 2143) History of the Complete (7 U.S.C. Section 2143)	rint)	DATE SIGNED
١	I certify that the abo	E OF CEO OR INSTITUTION	0	11/29/2004
1	SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL	Natural Sciences and Wattern		EADQUARTERS
١	Kolf Javaweera	which is obsolete	PARTITION	

APHIS Form 7023 Additional Reported Sites

The following additional sites have been reported by the facility. The reported sites have not been verified by APHIS and have been provided by the facility solely for completeness of the APHIS Form 7023 Annual Reporting submission.

Registration Number:

93-R-0416

Customer Number:

Facility:

CALIFORNIA STATE UNIVERSITY FULLERTON C/O OFFICE OF GRANTS & CONTRACTS, MH-112

P.O. BOX 6850

FULLERTON, CA 92834

Site A Institute for Wildlife Studies Veterinary Clinic Site A Catalina Island Conservancy, PO Box 2739

Site A Avalon, CA 90704

Interagency Report Control No.:

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

93-R-0417 1. CERTIFICATE NUMBER: CUSTOMER NUMBER: 1840

β,

FORM APPROVED OMB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY Colleg School Of Science, Office Of The Dean

(TYPE OR PRINT)

California State University Hayward

Telephone: (510) -885-3441

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, or experimentation, or held for these purposes. Attach additional sheets if necessary)

FACILITY LOCATIONS (Sites) - See Atached Listing

		FACILI		A DUIS Form 7023A
		- PEOEARC	H FACILITY (Attach additiona	sheets if necessary or use APRIS FURILL SHEET F.
Animals Covered By The Animal Welfare Regulations	B. Number of animal being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not ye used for such	animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use or pain-relieving	which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals an for which appropriate anesthetic, analgesic, or tranquilizing drugs were	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for what the use of appropriate anesthetic, analgesic, or tranquilizer drugs would have adversely affected the procedures, resor interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reason such drugs were not used must be attached to this report
ίρgs	Californi	a State Un	iversity, Hayu	ward did not use any species such, tests, experiments or 2003 through September 30,
. Cats	covered &	y the AWA	used in resear	2003 through September 30,
6. Guinea Pigs	for teach	ing, betwe	pen October !	
7. Hamsters	2004.			
8. Rabbits				
Non-human Primates	S			
10. Sheep				
11. Pigs				
12. Other Farm Animals	3			
13. Other Animals				
		·		dues williage drups, prior to, during, and following actual

- Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anestetic, analgesic, and tranquilizing drugs, prior to, during, and following actual respective testing current or experimentation were followed by this research facility. ASSURANCE STATEMENTS teaching, testing, surgery, or experimentation were followed by this research facility.

 - 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and a locality is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and a locality is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and a locality is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations to identifying the IACLIC appropriate principal investigator and a locality is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations to identifying the IACLIC appropriate principal investigator and a locality is adhering to identify the IACLIC appropriate principal and a standard in the IACLIC appropriate Inis radility is admering to the standards and regulations under the ACt, and it has required that exceptions to the standards and regulations de specified and explained by the principal investigator and a listitutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary of active expensions of the expensions of the expensions and pumper of eximple officials.
 - 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official)

NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print) Michael Leung, Dean, College of Science 9/30

DATE SIGNE

SIGNATURE OF C.E.O. OR NS ITUTIONAL OFFICIAL (Replaces VS FORM 18-23 (OCT 88), which is obsolete.)

APHIS FORM 7023 (AUG 94)

his report is required by law (7 USC 2143). Failure to report according to the regulations can sult in an order to cease and desist and to be subject to penalties as provided for in Section 215

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

ANNUAL REPORT OF RESEARCH FACILITY

(TYPE OR PRINT)

See attached form for additional information. Interagency Report Control No.:

1. CERTIFICATE NUMBER: 93-R-0418

CUSTOMER NUMBER: 1841 FORM APPROVED OMB NO. 0579-0036

California State University Long Beach 1250 Bellflower Blvd Long Beach, CA 90840

(562) 985-5314

Telephone: (310) -985-4459

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, or experimentation, or held for these purposes. Attach additional sheets if necessary)

FACILITY LOCATIONS (Sites) - See Atached Listing

		FAOILI	IT LOCATIONS (Same)	or use APHIS Form 7023A)	
	THE LINDER CO	ONTROL OF RESEARC	CH FACILITY (Attach additions	al sheets if necessary of eaching, experiments,	F.
Animals Covered By The Animal Welfare Regulations	B. Number of animal being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not ye used for such purposes.	C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use or pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals an for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for wh the use of appropriate anesthetic, analgesic, or tranquiliz drugs would have adversely affected the procedures, reso rinterpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reast such drugs were not used must be attached to this report	TOTAL NUMBER OF ANIMALS (COLUMNS C + D + E)
. Dogs					
5. Cats					-
6. Guinea Pigs					64
7. Hamsters	8	64			
8. Rabbits					-
9. Non-human Primates	s				
10. Sheep					-
11. Pigs					
12. Other Farm Animals	3				
13. Other Animals					8
round Squir	rels 41	8			

- 1) Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anestetic, analgesic, and tranquilizing drugs, prior to, during, and following actual reserved teaching testing surgery or experimentation were followed by this research facility. ASSURANCE STATEMENTS teaching, testing, surgery, or experimentation were followed by this research facility.

 - This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and appropriate the standards and regulations are required that exceptions to the standards and regulations to identifying the IACLIC. Institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary in the exceptions of the exceptions as well as the exceptions and summary of all such exceptions. 2) Each principal investigator has considered alternatives to painful procedures.
 - 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL

(Chief Executive Officer or Legally Responsible Institutional Official)

DATE SIGNED NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print) Elizabeth L. Ambos, Associate Vice President for Research & External Support SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL

(Replaces VS FORM 18-23 (OCT 88), which is obsolete.) APHIS FORM 7023

(AUG 91)

Set reverse side for additionalinformation

Interagency Report Control No 0180-DOA-AN

T LODICUIT	IRE
UNITED STATES DEPARTMENT OF AGRICULTU	···-
UNITED STATES DEPARTMENT OF ASIMAL AND PLANT HEALTH INSPECTION SER	VICE
ON THE STATE OF THE INSPECTION OF	
ANIMANI AND PLANTITUTE	

1842 1 REGISTRATION NO 93-R-0419

FORM APPROVED OMB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

2. HEADQUARTERS RESEARCH FACILITY (Name and Address, as registered with USDA include Zip Code) California State University, Los Angeles 5151 State University Drive Los Angeles, CA 90032

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets if necessary.)

FACILITY LOCATIONS (Sites)

Biological Sciences - Room 307A, 168, 2A,

Physical Scienc REPORT OF ANIMALS USED BY OR A. Animals Covered By The Anima Welfare Regulations	UNDER CONTROL OF B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes	RESEARCH FACILITY C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress. or use of pain-relieving drugs.	(Attach additional sheets if nece D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used	E. Number of animals upon which teaching experiments, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in those animals and the reasons such drugs were not used must be attached to this report)	F. TOTALNO OF ANIMALS (Cols. C + D + E)
4. Dogs					
5. Cats	-				
6. Guinea Pigs					39
7. Hamsters		39			
8. Rabbits					
9. Non-human Primates					
10. Sheep					
11., Pigs					
12. Other Farm Animals	-				
13 Other Animals	_				
	_				
	_			oleosic and tranquilizing dr	

- 1) Professionally acceptable standards governing the care, treatment, and use of animals including appropriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility ASSURANCE STATEMENTS

 - 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report, in addition to identifying the IACUC-approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.
 - 4) The attending veterinarian or this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

The attending veterinarianfor this re animal care and use.	CERTIFICATION BY HEADO (Chief Executive Officer of Locatify that the above is to	QUARTERS RESEARCH FACILITY r Legally Responsible Institutional Official) r Legally Responsible (7 USC Section 2143).)	DATE SIGNED
SIGNATURE OF CEO OR INSTITUTION		Costello Brown Ph.D Acting Dean, Graduate Studies		jz/13/04
Costella	7/ COCT 88) which	And Research		1

This report is required by law (7 USC 2143). Failure to report according to the regulations can result in an order to cease and desist and to be subject to penalties as provided for in Section 2150. See reverse side for additional information. Interagency Report Control No 0180-DOA-AN

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE 1. REGISTRATION NO. 93-R-0420

CUSTOMER NO. 1843

FORM APPROVED OMB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY

(TYPE OR PRINT)

2. HEADQUARTERS RESEARCH FACILITY (Name and Address, as registered with USDA, CALIFORNIA STATE UNIVERSITY NORTHRIDGE include Zip Code)

18111 NORDHOFF ST NORTHRIDGE, CA 91330-8232

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research	testing, teaching, or experimentation, or held for these purposes. Attach additional
REPORTING FACILITY (List all locations where animals were housed or used in actual research sheets if necessary.) FACILITY LOC	ATIONS(sites)
CALIFORNIA STATE UNIVERSITY NORTHRIDGE NORTHRIDGE, CA 91330-8232	
The state of the s	tional sheets if necessary or use APHIS FORM 7023A)

Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report)	TOTAL NO. OF ANIMALS (Cols. C + D + E)
Dogs					
Cats					16
s. Guinea Pigs	15	16			60
7. Hamsters	48	60			
8. Rabbits	1				
9. Non-Human Primates					
10. Sheep					
11. Pigs			-		
12. Other Farm Animals					
13. Other Animals	_				

- 1) Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, ASSURANCE STATEMENTS and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.

 - 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the This racility is admening to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). A summary of all the exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.
 - 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other

4) The attending veterinarian for this research facility has appropriate auti	unity to cheese was p	
aspects of animal care and use.	POLIADEDE DESEARCH FACILITY OFFICIAL	
CERTIFICATION BY	HEADQUARTERS RESEARCH FACILITY OFFICIAL	
Chief Executive O	ficer of Legally Rosponia (7115 C Section 2143)	TATE CICNED
I certify that the ab	ove is true, correct, and complete (7 U.S.C. Section 2143)	DATE SIGNED
	NAME & TITLE OF C.E.O. OK INSTITUTE	11/17/2004
SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL	Associate Vice President of Graduate Studies, Research, and International Programs	11/1/12004
	Associate Vice President of Graduate Studios, 11	
Mack I. Johnson, D.V.M., Ph.D.	PART 1 - HI	EADQUARTERS
	- Indo	

Interagency Report Control No.:

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE 1. CERTIFICATE NUMBER: 93-R-0421 CUSTOMER NUMBER: 1844

FORM APPROVED OMB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

California State Polytechnic University 3801 West Temple Ave. Pomona, CA 92768

Telephone: (714) -869-3405

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, or experimentation, or held for these purposes. Attach additional sheets if necessary)

FACILITY LOCATIONS (Sites) - See Atached Listing

surgery but not ye used for such purposes.	experiments, or tests were conducted involving no pain, distress, or use or pain-relieving drugs.	conducted involving accompanying pain or distress to the animals an for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	accompanying pain of distress to the transparent the use of appropriate anesthetic, analgesic, or tranquiliz drugs would have adversely affected the procedures, res or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reason such drugs were not used must be attached to this report	(COLUMN: C+D+E
				0
				Ø
				Ø
		10		22
	12	10		Ø
				Ø
				Ø
				-
				9
	1-9-			
				-
	-			
	ble standards governing			

- teaching, testing, surgery, or experimentation were followed by this research facility.
- This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approximately approxim 2) Each principal investigator has considered alternatives to painful procedures. Inis radiity is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and applications and the standards and regulations be specified and explained by the principal investigator and applications and applications and the standards and regulations be specified and explained by the IACUC-approved exceptions, this summary interference and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary interference and the constitution of t
- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL

CERTIFICATION BY HEADQUARTERS TO SEE (Chief Executive Officer or Legally Responsible	Institutional C	Official
(Clifet Excooning		

SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL

NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print) Debra Brum, Associate Provost

DATE SIGNED

APHIS FORM 7023 (AUG 91)

(Replaces VS FORM 18-23 (OCT 88), which is obsolete.)

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE 1. CERTIFICATE NUMBER: 93-R-0422

CUSTOMER NUMBER: 1845

FORM APPROVED OMB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

California State University Sonoma 1801 East Cotati Ave Rohnert Park, CA 94928

Telephone: (707) -664-2370

REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, or experimentation, or held for these purposes. Attach additional sneets if necessary)

FACILITY LOCATIONS (Siles) - See Alached Listing

		C. Number of animals upon which leaching, research, experiments, or tests were conducted involving no pain, distress, or use or pain-relieving drugs.	Number of animals upon which experiments, teaching, research, surgery, or lests were conducted involving accompanying pain or distress to the animals an for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for whithe use of appropriate anesthetic, analgesic, or tranquilic drugs would have adversely affected the procedures, resion interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reast such drugs were not used must be attached to this report	F. TOTAL NUMBER OF ANIMALS (COLUMNS
Dogs	<i>D'</i>	D	Ø	K	10
Dogs Cats	Ø	Ø	Ø	l &	1
Guinea Pigs	Ø	Ø	Ø	Ø	D Z
Hamslers	Ø	Ø	Ø	<u>A</u>	8
Rabbits	Ø	Ø	Ø	D	8
Non-human Primates		Ø	Ø	Ø	8
Sheep	Ø	Ø	Ø	8	0
. Pigs	Ø	Ø	Ø	8	0
. Other Farm Animals	Ø	Ø	10	Ø	-
<u> </u>		<u> </u>			B
3. Other Animals	Ø	D D	8	Ø	

ASSURANCE STATEMENTS

- 1) Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anestetic, analgesic, and tranquilizing drugs, prior to, during, and following actual rese. teaching, testing, surgery, or experimentation were followed by this research facility.
- 2) Each principal investigator has considered atternatives to painful procedures.
- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approximately investigator and approximat Institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary in brief explanation of the exceptions, as well as the species and number of animals affected.
- 4) The attending vaterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other ascience of animal care and use.

CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official)

GNATURE OF C.E.D. OR INSTITUTIONAL OFFICIAL

NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)

DATE SIGNES 1211104

(Replaces VS FORM 18-23 (OCT 88), which is cosciete.) is FORM 7023

(AUG 91)

Interagency Report Control No.:

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. CERTIFICATE NUMBER: 93-R-0423 CUSTOMER NUMBER: 8237

123

FORM APPROVED OMB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

California State University Sacramento 6000 J Street Sacramento, CA 95819

Telephone: (916) -278-7381

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, or experimentation, or held for these purposes. Attach additional sheets if necessary)

FACILITY LOCATIONS (Sites) - See Atached Listing

REPORT OF ANIMALS	USED BY OR UNDER C	CONTROL OF RESEAR	CH FACILITY (Attach additiona	I sheets if necessarv or use APHIS Form 7023A)	-
A. Animals Covered By The Animal Welfare Regulations	B. Number of animal being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not ye used for such purposes.	C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use or pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals an for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for wh the use of appropriate anesthetic, analgesic, or tranquilit drugs would have adversely affected the procedures, res or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reast such drugs were not used must be attached to this report.	F. TOTAL NUMBER OF ANIMALS (COLUMNS
4. Dogs					
5. Cats					
6. Guinea Pigs					
7. Hamsters					
8. Rabbits			-		
9. Non-human Primates					
10. Sheep					
11. Pigs					
12. Other Farm Animals					
13. Other Animals	0	0	0	0	0
	-				

ASSURANCE STATEMENTS

- 1) Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anestetic, analgesic, and tranquilizing drugs, prior to, during, and following actual reserved teaching, testing, surgery, or experimentation were followed by this research facility.
- 2) Each principal investigator has considered alternatives to painful procedures.
- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and aprincipal investigator and aprincipal investigator and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and aprincipal investigator and ap
- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

	CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official)	
SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print) Ric Brown, Vice President for Academic	DATE SIGNED 11/22/0

APHIS FORM 7023 (AUG 91) (Replaces VS FORM 18-23 (OCT 88), which is obsolete.)

Interagency Report Control No.:

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE 1. CERTIFICATE NUMBER: 93-R-0425 1847 CUSTOMER NUMBER:

FORM APPROVED OMB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

5500 Campanile Drive

San Diego State Univertisy (Sdsu) San Diego State University (SDSU)

San Diego, CA 92182

Telephone: (619) 594-5213 (619) 594-5938

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, or experimentation, or held for these purposes. Attach additional sheets if necessary)

FACILITY LOCATIONS (Sites) - See Atached Listing

	B. Number of animal being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not ye used for such purposes.	C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use or pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals an for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for wh the use of appropriate anesthetic, analgesic, or tranquiliz drugs would have adversely affected the procedures, res or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures, producing pain or distress in these animals and the reast such drugs were not used must be attached to this report	F. TOTAL NUMBER OF ANIMALS (COLUMNS
. Dogs	0				0
. Cats	0			-	0
. Guinea Pigs	0				0
. Hamsters	0				0
. Rabbits	0				0
). Non-human Primates	0				0
0. Sheep	0			(0)	0
1. Pigs	0			-	0
2. Other Farm Animals	0				+
		-:			0
3. Other Animals	0				U

ASSURANCE STATEMENTS

- Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anestetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research teaching, testing, surgery, or experimentation were followed by this research facility.
- Each principal investigator has considered alternatives to painful procedures.
- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approximately investigator and approximat This returnly to activating to the demonstrate and regulations under the rod, and it was required that exceptions in attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary in height evaluations are used to the exceptions and summary in the exceptions are used to the exceptions. brief explanation of the exceptions, as well as the species and number of animals affected.
- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL

(Chief Executive Officer or Legally Responsible Institutional Official)

NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)

Thomas R. Scott, Ph.D. Associate Vice President for Research DATE SIGNED

homas K~ APHIS FORM 7023

SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL

(Replaces VS FORM 18-23 (OCT 88), which is obsolete.)

(AUG 91)

Interagency Report Control No.:

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE 1. CERTIFICATE NUMBER: 93-R-0426 CUSTOMER NUMBER: 1848

FORM APPROVED OMB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

San Francisco State University 1600 Holloway Avenue San Francisco, CA 94132

Telephone: (415) -338-2231

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, or experimentation, or held for these purposes. Attach additional sheets if necessary)

FACILITY LOCATIONS (Sites) - See Atached Listing

REPORT OF ANIMALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY (Attach additional sheets if necessary or use APHIS Form 7023A) F. Number of animals upon which teaching, experiments,					
A. Animals Covered By The Animal Welfare Regulations		C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use o pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals an for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for wh the use of appropriate anesthetic, analgesic, or tranquiliz drugs would have adversely affected the procedures, ires or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reast such drugs were not used must be attached to this report	F. TOTAL NUMBER OF ANIMALS (COLUMNS C+D+E)
4. Dogs					
5. Cats					·
6. Guinea Pigs					
7. Hamsters					
8. Rabbits					
9. Non-human Primates					
10. Sheep			·		
11. Pigs					
12. Other Farm Animals					
13. Other Animals					
Kangaroo rata	(2				
(1== /=	1) (O-trom717/04	<u> </u>			
	to present	<u></u>			

ASSURANCE STATEMENTS

- 1) Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anestetic, analgesic, and tranquilizing drugs, prior to, during, and following actual reserved to the control of teaching, testing, surgery, or experimentation were followed by this research facility.
- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approximately the standards and regulations are standards and regulations. Institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary in
- brief explanation of the exceptions, as well as the species and number of animals affected. 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official)

NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print) Ken Pup, PhO ASSX VP for Research

DATE SIGNED

APHIS FORM 7023

SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL

(Replaces S FORM 18-23 (OCT 88), which is obsolete.)

(AUG 91)

Interagency Report Control No.:

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE 1. CERTIFICATE NUMBER: 93-R-0427 CUSTOMER NUMBER:

FORM APPROVED OMB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY

(TYPE OR PRINT)

California State University San Jose One Washington Square San Jose, CA 95192

Telephone: (408) -924-2488

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, or experimentation, or held for these purposes. Attach additional sheets if necessary)

FACILITY LOCATIONS (Sites) - See Atached Listing

REPORT OF ANIMALS U Animals Covered By The Animal Welfare Regulations	B. Number of animal being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not ye used for such purposes.	C. Number or animals upon which teaching, research, experiments, or tests were conducted	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals an for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for what the use of appropriate anesthetic, analgesic, or tranquilized drugs would have adversely affected the procedures, reconsurgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reas such drugs were not used must be attached to this repo	(COLUMNS C+D+E)
1. Dogs					
5. Cats					
6. Guinea Pigs					
7. Hamsters					11
8. Rabbits		3	8		
9. Non-human Primates					
10. Sheep		·			
11. Pigs					
12. Other Farm Animals					
13. Other Animals					7
CA sealion	1	7 8	2		10

(AUG 91)

- 1) Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anestetic, analgesic, and tranquilizing drugs, prior to, during, and following actual reservables to the control of the control ASSURANCE STATEMENTS teaching, testing, surgery, or experimentation were followed by this research facility.

 - 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and appropriate the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and appropriate the Act, and it has required that exceptions to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations are specified and explained by the principal investigator and appropriate the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and appropriate the Act, and it has required that exceptions to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations are specified and explained by the principal investigator and appropriate the Act, and it has required that exceptions to the standards and regulations are specified and explained by the principal investigator and appropriate the Act, and it has required that exceptions to the standards and regulations are specified and explained by the principal investigator and appropriate the Act and the A rnis racinty is agriening to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and applications are required that exceptions to the standards and regulations be specified and explained by the principal investigator and applications are required that exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary in
 - 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

 The attending veterinarian for this research facility has appropriate author 	MY to elistic site provide	
CERTIFICATIO	IN BY HEADQUARTERS RESEARCH FACILITY OFFICIAL utive Officer or Legally Responsible Institutional Official)	
(Chief Execu		IDATE S
	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	1/
SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL	TIMP Gad Station of Research	10/

(Replaces VS FORM 18-23 (OCT 88), which is obsolete.) APHIS FORM 7023

NATV 2 4 2004

Interagency Report Control No.:

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE 1. CERTIFICATE NUMBER: 93-R-0430 CUSTOMER NUMBER: 8817

FORM APPROVED OMB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

21st Century Medicine, Inc. 10844 Edison Court Rancho Cucamonga, CA 91730

Telephone: (909) -466-8633

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, or experimentation, or held for these purposes. Attach additional sheets if necessary)

FACILITY LOCATIONS (Sites) - See Atached Listing

PORT OF ANIMALS US	B. Number of animal	C. Number of animals upon	which experiments,	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for what accompanying pain or distress to the animals and for wh	F. TOTAL NUMB
Animals Covered By The Animal Welfare Regulations	being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not ye used for such purposes.	animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use or pain-relieving drugs.	teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals an for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	accompanying pain or distress to the distress to the time the use of appropriate anesthetic, analgesic, or tranquiliz drugs would have adversely affected the procedures, res or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reast such drugs were not used must be attached to this report	OF ANIMALS (COLUMN C + D + E
Dogs	5				0
Cats	0				0
Guinea Pigs	0				0
. Hamsters	0			0	310
Rabbits	7	O	310	0	0
9. Non-human Primates	0				0
10. Sheep	0				0
10. Sneep 	0				0
12. Other Farm Animals	0				
					0
13. Other Animals	0				
10. Onto Aminiato	+				
	-				

- Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anestetic, analgesic, and tranquilizing drugs, prior to, during, and following actual retearching testing surnery or experimentation were followed by this receased facility ASSURANCE STATEMENTS teaching, testing, surgery, or experimentation were followed by this research facility.

 - 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and Institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summar
 - 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official)

NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print) Harvey Horswell

DATE SIGN 11/10/4

SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL

insurell

(Replaces VS FORM 18-23 (OCT 88), which is obsolete.)

This report is required by law (7 USC 2143). Failure to report according to the regulations can result in an order to cease and desist and to be subject to penalties as provided for in Section 2150. UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

Interagency Report Control No 0180-DOA-AN

See reverse side for additional information.

CUSTOMER NO. 1. REGISTRATION NO. 9191 93-R-0432

FORM APPROVED OMB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY

2. HEADQUARTERS RESEARCH FACILITY (Name and Address, as registered with USDA, UNIVERSITY OF CALIFORNIA, BERKELEY include Zip Code) 119 CALIFORNIA HALL BERKELEY, CA 94720-1500

(TYPE OR PRINT) 3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets if necessary.)

FACILITY LOCATIONS(sites) THE UNIVERSITY OF CALIFORNIA, BERKELEY BERKELEY, CA 94720-1500

OF ANIMALS LISED BY O	R UNDER CONTROL OF	RESEARCH FACILITY (Attach additional sheets if necess	F Number of animals upon which teaching,	TOTAL NO.
Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	experiments, research, surgery or pain or distress conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report)	OF ANIMALS (Cols. C + D + E)
	parpeces				53
Dogs			53		64
5. Cats		5	59		619
6. Guinea Pigs	20	71	548		183
7. Hamsters	8	143	40		6
8. Rabbits			6		
9. Non-Human Primates					
10. Sheep					-
11. Pigs					
12. Other Farm Animals					
13. Other Animals					37
			37		44
Hyena		40	4		123
Kangaroo Rat	10	84	39	into use of anesthetic, analgesic, and tranquilizing drugs, pri	

ASSURANCE STATEMENTS

- 1) Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research teaching testing surpey or experimentation were followed by this research facility. and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigate and approved by the locitivities of Asimal Care and the Committee (IACLIC). A summary of all the exceptions is attached to this approved by the locitivities of Asimal Care and the Committee (IACLIC). A summary of all the exceptions is attached to this approved by the locitivities of Asimal Care and the Committee (IACLIC). 2) Each principal investigator has considered alternatives to painful procedures. Philo labelity is addressing to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). A summary of all the exceptions is attached to this annual report. In addition to identifying the IACUC approved exceptions, this summary includes a high exceptions of the exceptions are until as the appointment of points affected. philippar investigator and approved by the institutional Animal care and use committee (IACUC). A summary of all tile exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.
- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use

	addition to identifying the IACUC-approved exceptions	ority to ensure the provision of adequate vetering	
	addition to identifying the IACUC-approved exceptions The attending veterinarian for this research facility has appropriate auth aspects of animal care and use.	HEADQUARTERS RESEARCH FACILITY OFFICIAL Figure of Legally Responsible Institutional official)	
Γ			DATE SIGNED
١	I certify that the abo	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (1)	11/22/2004
1	SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL	Beth Burnside, Vice Chancellor for Research	EADQUARTERS
	Quig Driver for Beth Burnside	PART 1 - FI	EVDGOVA

See reverse side for additional information. Interagency Report Control No 0180-DOA-AN

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

CUSTOMER NO. REGISTRATION NO. 9191 93-R-0432

FORM APPROVED OMB NO. 0579-0036

CONTINUATION SHEET FOR ANNUAL REPORT OF RESEARCH FACILITY

(TYPE OR PRINT)

2. HEADQUARTERS RESEARCH FACILITY (Name and Address, as registered with USDA, UNIVERSITY OF CALIFORNIA, BERKELEY include Zip Code) 119 CALIFORNIA HALL BERKELEY, CA 94720-1500

ORT OF ANIMALS USED BY Animals Covered By The Animal Welfare Regulations	OR UNDER CONTROL OF B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments,	animals upon which teaching, research, experiments, or tests were conducted	which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals	conducted involving accompany to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of experiments, surgery, or tests.)	TOTAL NO. OF ANIMALS (Cols. C + D + E)
	research, or surgery but not yet used for such purposes.	involving no pain, distress, or use of pain- relieving drugs.	anesthetic, analgesic, or tranquilizing drugs were used.	the procedures producing pain or use of animals and the reasons such drugs were not used must be attached to this report)	49
Tuco		49			18
uco Tuco		12	6		197
ole Vild Mouse	60	118	79		275
Wild Rats		275			
Wild Nats					
		-			
				iate use of anesthetic, analgesic, and tranquilizing drugs, p ch facility.	rios to during

- 1) Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the This racility is adnering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). A summary of all the exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.
- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

	a 4) T a	rhe attending veterinarian for this research facility has appropriate authors aspects of animal care and use.	HEADQUARTERS RESEARCH THE Institutional official)	
		(Chief Executive Of I certify that the abo	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED 11/22/2004
1		Driver for Beth Burnside	Beth Burnside, Vice Chancellor for Research PART 1 - H	EADQUARTERS

Interagency Report Control No.:

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE 1. CERTIFICATE NUMBER: 93-R-0433 CUSTOMER NUMBER: 9192

FORM APPROVED QMB NO. 0579-0036 . DRLRA

ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

University Of California, Davis One Shields Ave Davis, CA 95616

Telephone: (530) -752-2364

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, or experimentation, or held for these purposes. Attach additional sheets if necessary)

FACILITY LOCATIONS (Sites) - See Atached Listing

	B. Number of animal being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not ye used for such purposes.	C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use or pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals an for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for whithe use of appropriate anesthetic, analgesic, or tranquiliz drugs would have adversely affected the procedures, resor interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reast such drugs were not used must be attached to this report.)	F. TOTAL NUMBER OF ANIMALS (COLUMNS C + D + E)
		38	505	0	543
. Dogs	0	303	439	0	742
. Cats	49		178	0	198
. Guinea Pigs	0	20	264	0	321
. Hamsters	0	57	 	0	475
3. Rabbits	0	18	457	0	2323
9. Non-human Primates	2675	252	2071		191
I0. Sheep	0	185	6	0	450
11. Pigs	684	409	41	0	
12. Other Farm Animals	14	41	261	0	302
Horse	394	492	87	0	579
Cattle 13. Other Animals	+				
		0	0	0	0
Alpaca/Llama			66	0	66
Bighorn she	e p 0	0		0	34
Chipmunk	0	34	. 0		

ASSURANCE STATEMENTS

- Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anestetic, analgesic, and tranquilizing drugs, prior to, during, and following actual reserved teaching, testing, surgery, or experimentation were followed by this research facility.
- 2) Each principal investigator has considered alternatives to painful procedures.
- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approximately in the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approximately investigated and explained by the principal investigator and approximately investigated and explained by the principal investigator and approximately investigated and explained by the principal investigator and approximately investigated and explained by the principal investigator and approximately investigated and explained by the principal investigator and approximately investigated and explained by the principal investigator and approximately investigated and explained by the principal investigator and approximately investigated and explained by the principal investigator and approximately investigated and explained by the principal investigator and approximately investigated and explained by the principal investigator and approximately investigated and explained by the principal investigator and approximately investigated and explained by the principal investigator and approximately investigated and explained by the principal investigator and approximately investigated and explained by the principal investigator and approximately investigated and explained by the principal investigator and approximately investigated and explained by the principal investigator and approximately investigated and explained by the principal investigator and approximately investigated and explained by the principal investigator and approximately investigated and explained by the principal investigator and approximately investigated and explained by the principal investigator and approximately investigator and approximately investigator and approximately investigator and approximately investigated and approximately investiga Institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary in brief explanation of the exceptions, as well as the species and number of animals affected.
- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL

(Chief Executive Officer or Legally Responsible Institutional Official)

NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)

Stan Nosek, Institutional Official

DATE SIGNED

APHIS FORM 7023

SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL

(Replaces VS FORM 18-23 (OCT 88), which is obsolete.)

DEC - 3 2004

Interagency Report Control No.:

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE 1. CERTIFICATE NUMBER: 93-R-0436 CUSTOMER NUMBER: 9195

Ń

FORM APPROVED OMB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY

(TYPE OR PRINT)

University Of California, Riverside Office Of Research Affairs 200 University Office Building Riverside, CA 92521

Telephone: (909)-787-5635 (951) 827-4811

PAGE 1

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, or experimentation, or held for these purposes. Attach additional sheets if necessary)

FACILITY LOCATIONS (Sites) - See Atached Listing

	DESTRUCTION OF LINDER	CONTROL OF RESEAR	CH FACILITY (Attach addition:	al sheets if necessary or use APHIS Form 7023A	
A. Animals Covered By The Animal Welfare Regulations	B. Number of animal being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not ye used for such purposes.	C. Number of animals upon which teaching, research, experiments, or tests were conducted	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals an for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for wh the use of appropriate anesthetic, analgesic, or tranquiliz drugs would have adversely affected the procedures, res or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reast such drugs were not used must be attached to this report	TOTAL NUMBER OF ANIMALS (COLUMNS C + D + E)
4. Dogs					18
5. Cats		18			[D
6. Guinea Pigs					177
7. Hamsters		23	177		1
8. Rabbits			4		
9. Non-human Primates					
10. Sheep					
11. Pigs					 _ : _ : _ : _ : _ : _ : _ : _ : _ : _
12. Other Farm Animals					3,266
Chick(en)s		3002	264		3,000
13. Other Animals				e	
Quail		6			+ 242
Peromyscus	449	242			
Desert Roder	nt				

ASSURANCE STATEMENTS

- Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anestetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research teaching, testing, surgery, or experimentation were followed by this research facility.
- 2) Each principal investigator has considered alternatives to painful procedures.
- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approximately appro Institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary in brief explanation of the exceptions, as well as the species and number of animals affected.
- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

4) The attending veterinarian for this research facility has be	ERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official)	
SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print) Dr. Charles F. Louis, VC for Research	DATE SIGNED

APHIS FORM 7023

(Replaces VS FORM 18-23 (OCT 88), which is obsolete.)

See reverse side lor additional information. Interagency Report Control No. 0180-DOA-AN

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE 1. REGISTRATION NO. 93-R-0436

FORM APPROVED OMB NO. 0579-0036

CONTINUATION SHEET FOR ANNUAL REPORT OF RESEARCH FACILITY

(TYPE OR PRINT)

PAGE 2

2. HEADQUARTERS RESEARCH FACILITY (Name and Address, as registered with USDA, include Zip Code) University of California, Riverside Office of Research Affairs 200 University Office Building Riverside, CA. 92521 (951) 827-4811

TAUL L			(951) 64		
Animals Covered By The Animal Welfare Regulations 12. &/OR 13. Other	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	RESEARCH FACILITY C Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report).	TOTAL NO. OF ANIMALS (Cols. C + D + E)
(List by species) Bullfrogs	U		54		54
Squirrels					1011
Turtles	17	74	20		94
Salamanders					<u>.</u>
Ducks					1-,,
Xenopus	6		4		14
Rats	152	180	1921	· .	12,101
Mice	1,130	509	4430		4,939
Gerbils	193	872	300		1,172
CCTDTTO					
	 				
				e	
		1	. !		, , ,
ASSURANCE STATEMENTS					

ASSURANCE STATEMENTS

- 1). Professionally acceptable standards governing the care, treatment, and use of animals, including approriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
- 2). Each principal investigator has considered alternatives to painful procedures.
- 3). This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.
- 4). The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

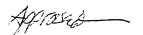
CERTIFICATION BY HEADQUARTES RESEARCH FACILITY OFFICIAL
(Chief Executive Officer or Legally Responsible Institutional Official)
(Chief Executive Officer of English and appropriate (7.11.5.C. Section 2143).

I certify that the above is true, correct, and complete (7 U.S.C. Section 2143).

NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)

DATE SIGNED

SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL Dr. Charles Louis, VC for Research



This report is required by law (7 USC 2143). Failure to report according to the regulations can result in an order to cease and desist and to be subject to penalties as provided for in Section 2150.

See reverse side for additional information. Interagency Report Control No 0180-DOA-AN

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE 1. REGISTRATION NO. 93-R-0437

CUSTOMER NO.

FORM APPROVED OMB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY

(TYPE OR PRINT)

2. HEADQUARTERS RESEARCH FACILITY (Name and Address, as registered with USDA, include Zip Code) UNIVERSITY OF CALIFORNIA, SAN DIEGO

9500 GILMAN AVENUE LA JOLLA, CA 92093-0071

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets if necessary.) FACILITY LOCATIONS(sites) THE UNIVERSITY OF CALIFORNIA, SAN DIEGO LA JOLLA, CA 92093-0071 LA JOLLA, CA 92093

conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	which experiments, leaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report)	TOTAL NO. OF ANIMAL: (Cols. C + D + E)
		97		97
	4	10		14
	23	43		66
	40	1884		1924
	227	605		832
		4		4
	13	35		48
	3	124		127
		20		20
		44		4
		23		23
	experiments, research, or surgery but not yet used for such	experiments, research, or surgery but not yet used for such purposes. Conducted involving no pain, distress, or use of pain-relieving drugs.	experiments, research, or surgery but not yet used for such purposes. Conducted involving no pain, distress, or use of pain-relieving drugs. P7 4 10 23 43 40 1884 227 605 4 13 35 3 124	experiments, research, or surgery but not yet used for such purposes. Conducted involving no surgery but not yet used for such purposes. 97

- 1) Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
- 2) Each principal investigator has considered alternatives to painful procedures.
- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). A summary of all the exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.
- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

aspects of the same state of t					
CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional official) I certify that the above is true, correct, and complete (7 U.S.C. Section 2143)					
SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED			
Richard Attiyeh, Ph.D.	Richard Attiyeh, Vice Chancellor, Research & Dean, Graduate Studies	11/09/2004			

Interagency Report Control No.:

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE 1. CERTIFICATE NUMBER: 93-R-0438 CUSTOMER NUMBER: 9197

FORM APPROVED OMB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

University Of California, Santa Barbara Office Of Research Santa Barbara, CA 93106

Telephone: (805) -893-3807

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, or experimentation, or held for these purposes. Attach additional sheets if necessary)

FACILITY LOCATIONS (Sites) - See Atached Listing

	B. Number of animal being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not ye used for such purposes.	C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use or pain-relieving	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals an for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for wh the use of appropriate anesthetic, analgesic, or tranquiliz drugs would have adversely affected the procedures, res or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reask such drugs were not used must be attached to this report	F. TOTAL NUMBER OF ANIMALS (COLUMNS
	i.	drugs.			
1. Dogs					
5. Cats			1.0		69
6. Guinea Pigs			69		-
7. Hamsters					2
8. Rabbits			2		_
9. Non-human Primates	1.1				_
10. Sheep	7				_
11. Pigs					-
12. Other Farm Animals					_
Cattle	44				1 -
13. Other Animals					108
Zeldina's Gr.S	ranicre	108			
D. L. L.					

ASSURANCE STATEMENTS

- Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anestetic, analgesic, and tranquilizing drugs, prior to, during, and following actual reservables to the control of the care and tranquilizing drugs, prior to, during, and following actual reservables to the care and tranquilizing drugs, prior to, during, and following actual reservables to the care and tranquilizing drugs, prior to, during, and following actual reservables to the care and tranquilizing drugs, prior to, during, and following actual reservables to the care and tranquilizing drugs, prior to, during, and following actual reservables to the care and tranquilizing drugs, prior to, during, and following actual reservables to the care and tranquilizing drugs, prior to, during, and following actual reservables to the care and tranquilizing drugs, prior to, during, and following actual reservables to the care and tranquilizing drugs, prior to, during, and tranquilizing drugs, and tranquili teaching, testing, surgery, or experimentation were followed by this research facility.
- This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approximately account to the standards and regulations are considered to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations are considered to the standards are con 2) Each principal investigator has considered alternatives to painful procedures. Inis racility is agnering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations de specified and explained by the process of authors of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary interference and the exceptions of the explanation of the exceptions and summary of all such exceptions and summary of all such exceptions. brief explanation of the exceptions, as well as the species and number of animals affected.
- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL

(Chief Executive Officer or Legally Responsible Institutional Official)

SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL

NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)

Steven D. CAINES

HIS FORM 7023 (AUG 91)

(Replaces VS FORM 18-23 (OCT 88), which is obsolete.)

This report is required by law (7 USC 2143). Failure to report according to the regulations can result in an order to cease and desist and to be subject to penalties as provided for in Section 2150. See reverse side for additional information. Interagency Report Control No. 0180-DOA-AN

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE 1. REGISTRATION NO.

FORM APPROVED OMB NO. 0579-0036

2. HEADQUARTERS RESEARCH FACILITY (Name and Address, as registered with USDA

CONTINUATION SHEET FOR ANNUAL REPORT OF RESEARCH FACILITY

(TYPE OR PRINT)

REPORT OF ANIMALS USED BY OR				E Number of animals upon which teaching,	F
A. Animals Covered By The Animal Welfare Regulations 12. &/OR 13. Other (List by species)	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report).	TOTAL NO. OF ANIMAL: (Cols. C + D + E)
louglas Gr. Squire		4			4
Skirks		93			93
Black Rat			10		10
eer Mouse			8	·	8
Island Fox		102			102
			<u> </u>		<u> </u>
					<u> </u>
	·				1
					-
				,	
			<u> </u>		_
					+
				e'	
		1			
					+

ASSURANCE STATEMENTS

- 1). Professionally acceptable standards governing the care, treatment, and use of animals, including approriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
- 2). Each principal investigator has considered alternatives to painful procedures.
- 3). This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.
- 4). The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

CERTIFICATION BY HEADQUARTES RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official)

I certify that the above is true, correct, and complete (7 U.S.C. Section 2143).

SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL

NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)

DATE SIGNED

Steven D. Eaines

Vire Chancellas for Ror

11/15/04

Interagency Report Control No.:

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. CERTIFICATE NUMBER: 93-R-0439 CUSTOMER NUMBER: 9198

39

FORM APPROVED OMB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY

(TYPE OR PRINT)

University Of California, Santa Cruz 1156 High Street Santa Cruz, CA 95064

Telephone: (831) -459-2931

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, or experimentation, or held for these purposes. Attach additional sheets if necessary)

FACILITY LOCATIONS (Sites) - See Atached Listing

A. Animals Covered By The Animal Welfare Regulations	B. Number of animal being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not ye used for such purposes.	C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use or pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals an for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surpery or tests were conducted involving accompanying pain or distress to the animals and for whithe use of appropriate anesthetic, analysest, or tranquilitz drugs would have adversely effected the procedures, resion interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reason such drugs were not used must be attached to this report.)	F. TOTAL NUMBER OF ANIMALS (COLUMNS C + D + E)
4. Dogs					
5. Cats					
6. Guinea Pigs					
7. Hamsters					
8. Rabbits					
9. Non-human Primates					
10. Sheep					
11. Pigs					
12. Other Farm Animals					
13. Other Animals			1		
CETA CEANS	2				
MUSTELIAS	2.				
PINNIPEDS	6	2.			2

- 1) Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anestetic, analgesic, and tranquilizing drugs, prior to, during, and following actual reserved teaching, testing, surgery, or experimentation were followed by this research facility.
- 2) Each principal investigator has considered alternatives to painful procedures.
- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approximation. It is a standard and approximation of the exceptions are the species and number of animals effected.
- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

1) The attentioning vectormatisks for this research recallly has appropriate accounty to en	sure the provision of abequate versions care and to oversee the adequacy of outer aspects of annotations	Har care and pao.
	EADQUARTERS RESEARCH FACILITY OFFICIAL cer or Legally Responsible Institutional Official)	
SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL	David S. Kliger, Dean, Division of Physical and Biological Sciences	DATE SIGNED
APHIS FORM 7023 (Replaces VS FORM 18-23 (OCT 88), which is obsolete.)	and biological ecicinees	e de la companya de l

Colle

(AUG 91)

Interagency Report Control No.:

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE 1. CERTIFICATE NUMBER: 93-R-0441

FORM APPROVED OMB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY

(TYPE OR PRINT)

University Of California White Mountain Res.

9200

9500 Gilman Drive La Jolla, CA 92093

CUSTOMER NUMBER:

Telephone: (858) -822-0165

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, or experimentation, or held for these purposes. Attach additional sheets if necessary)

3. REPORTING FACILITY (L	ist all locations where anima	is were noused of used in a		1	
Owens V	alley & B	acroff FACIL	TY LOCATIONS (Sites) - See A	Ushpers if peressary or use APHIS Form 7023A	
REPORT OF ANIMALS	USED BY OR UNDER C	ONTROL OF RESEAR	CH FACILITY TALLER	I sheets if necessary or use APHIS Form 7023A) E. Number of animals upon which teaching, experiments,	F.
Animals Covered By The Animal Welfare Regulations	B. Number of animal being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not ye used for such purposes.	C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use or pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals an for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	research, surgery or tests were conducted involving accompanying pain or distress to the animals and for wh the use of appropriate anesthetic, analgesic, or tranquilliz drugs would have adversely affected the procedures, res or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasc such drugs were not used must be attached to this report	TOTAL NUMBER OF ANIMALS (COLUMNS C + D + E)
4. Dogs	6				,
5. Cats					· · · · · · · · · · · · · · · · · · ·
			46		46
6. Guinea Pigs					
7. Hamsters		<u> </u>			
8. Rabbits					0/
9. Non-human Primates					28
10. Sheep	7-8				7.0
11. Pigs					
12. Other Farm Animals					
13. Other Animals					177
· ·			/33		133

ASSURANCE STATEMENTS

- Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anestetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research teaching, testing, surgery, or experimentation were followed by this research facility.
- 2) Each principal investigator has considered alternatives to painful procedures.
- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and appropriate (IACLIC). A support of all the complete (IACLIC). A support of all the complete (IACLIC). Institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary in brief explanation of the exceptions, as well as the species and number of animals affected.
- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

4) The attenuing vecentialities will be a strong of the st	CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official)	
SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL	LYANG & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED

APHIS FORM 7023

(Replaces VS FORM 18-23 (OCT 88), which is obsolete.)

9336

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE 1. CERTIFICATE NUMBER:

CUSTOMER NUMBER:

93-R-0442

FORM APPROVED OMB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY

(TYPE OR PRINT)

Cortex Pharmaceuticals, Inc. 15241 Barranca Parkway Irvine, CA 92618

Telephone: (949) -727-3157

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, or experimentation, or held for these purposes. Attach additional sheets if necessary)

15241 Barranca Parkway

FACILITY LOCATIONS (Sites) - See Atached Listing

Animals Covered By The Animal Welfare Regulations		Number of animal being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not ye used for such purposes.		Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use or pain-relieving drugs.	D.		E.	Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for wh the use of appropriate anesthetic, analgesic, or tranquiliz drugs would have adversely affected the procedures, res or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reast such drugs were not used must be attached to this report	F. TOTAL NUMBER OF ANIMALS (COLUMNS C + D + E)
I. Dogs									
5. Cats							-		
5. Guinea Pigs		1					_	•	
7. Hamsters					1	n will	1		
8. Rabbits			L				-		
9. Non-human Primates						and of home	1	r P	
0. Sheep					00	~ () () () () () () () () () () () () ()	W.F		
11. Pigs				No		16 1 11/	1		
12. Other Farm Animals			-		+		+		
13. Other Animals	-		╁						
			1				-		
					_		+	•	+

ASSURANCE STATEMENTS

- Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anestetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research teaching, testing, surgery, or experimentation were followed by this research facility.
- 2) Each principal investigator has considered alternatives to painful procedures.
- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and app. Institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary in brief explanation of the exceptions, as well as the species and number of animals affected.
- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official)

SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL

NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)

DATE SIGNED

TEVEN A JOHNSON, V.P. Poeclined Dev

APHIS FORM 7023

ces VS FORM 18-23 (OCT 88), which is obsolete.)

Interagency Report Control No.:

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE 1. CERTIFICATE NUMBER: 93-R-0444 10138 CUSTOMER NUMBER:

FORM APPROVED OMB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

Perry Scientific 7999 Vickers St San Diego, CA 92111

Telephone: (909) -699-6339

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, or experimentation, or held for these purposes. Attach additional sheets if necessary)

FACILITY LOCATIONS (Sites) - See Atached Listing

EPORT OF ANIMALS US	SED BY OR UNDER CO	NTROL OF RESEARC	D. Number of animals upon	E. Number of animals upon which teaching, experiments,	F.
Animals Covered By The Animal Welfare Regulations	B. Number of animal being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not ye used for such purposes.	C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use or pain-relieving drugs.	Number of artificials upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals an for which appropriate anesthetic, analyesic, or tranquilizing drugs were used.	E. Number of animals upon winds are conducted involving research, surgery or tests were conducted involving accompanying pain or distress to the animals and for whithe use of appropriate anesthetic, analgesic, or tranquiliz drugs would have adversely affected the procedures, resor interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reast such drugs were not used must be attached to this report	TOTAL NUMBEF OF ANIMALS (COLUMNS C + D + E)
. Dogs		10	1		
. Cats					
. Guinea Pigs			11		93
7. Hamsters		77	16		24
8. Rabbits			24		
9. Non-human Primates					5
10. Sheep			5		56
11. Pigs		5	51		
12. Other Farm Animals					
13. Other Animals					
	:				

ASSURANCE STATEMENTS

- 1) Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anestetic, analgesic, and tranquilizing drugs, prior to, during, and following actual reservables to the control of the care of teaching, testing, surgery, or experimentation were followed by this research facility.
- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and appropriate the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and appropriate the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and appropriate the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and appropriate the act of the standards and regulations under the Act, and it has required that exceptions to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations are standards are standards and regulations are standards are standards. This rating is auriening to the standards and regulations under the ACt, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and appropriate (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary in interesting of the exceptions and pumples of explaining and pumples of exceptions.
- The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

brief explanation of the exceptions, as the	acceptance authority to ensure the provision of adequate veterinary care and to occurrent	
 The attending veterinarian for this research facility had 	certification by Headquarters research Facility Official)	
	CERTIFICATION BY HEADQUARTERS RESEARCH (Chief Executive Officer or Legally Responsible Institutional Official)	
	(Chief Executive Officer of Legally Noopania DATE S	SIGNED
	INAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type of Print)	9/04
SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL	ANDREW PERRY	110 1
() [
1 Laces 1 cours		

APHIS FORM 7023 (AUG 91)

(Replaces VS FORM-18-23 (OCT 88), which is obsolete.)

This report is required by law (7 USC 2143). Failure to report according to the regulations can into report to required by law (1 USC 2143). Haiture to report according to the regulations can sault in an order to cease and desist and to be subject to penalties as provided for in Section 2150. See reverse side for additional information. Interagency Report Control No 0180-DOA-AN

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. REGISTRATION NO.

FORM APPROVED CUSTOMER NO OMB NO. 0579-0036 10329 2. HEADQUARTERS RESEARCH FACILITY (Name and Address, as registered with USDA,

ANNUAL REPORT OF RESEARCH FACILITY

(TYPE OR PRINT)

C V THERAPEUTICS 1651 PAGE MILL ROAD PALO ALTO, CA 94304 include Zip Code)

THE FACILITY (List all loca	tions where animals were	housed of used in dotal	2010 (200)	(650) 384-8500 ng, or experimentation, or held for these purposes. Attach add	
orting facility (List amount of the control of the		FACI	ILITY LOCATIONS (SITES)		
Attached Listing					
			1	,	
•			this selected if I	necessary or use APHIS FORM 7023A)	F.
	UNDER CONTROL OF	RESEARCH FACILITY (Attach additional sheets in	necessary or use Arritor by the second of th	TOTAL NO.
Animals Covered By The Animal Welfare Regulations	animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or	which teaching, research, experiments, or tests were conducted involving no pain, distress, or	Number of which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain of distress to the enimal and for which appropanesthetic, analyesis tranquilizing drugs with the enimal for the enimal for the enimal for the enimal formation of the enimal format	conducted involving accompanying pain to disconducted involving accompanying pain to disconducted involving accompanying pain to disconducted involving additional to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilitizing drugs would have adversely affected the procedures, results, interpretation of the teaching, research, interpretation of the teaching, research, interpretation of the teaching pain or distress in these the procedures producing pain or distress in the standard part of the teaching pain to district the proposition of the teaching the procedures.	(Cols. C + D + E)
	surgery but not yet used for such	use of pain- relieving drugs.	used.	musi be dito	
	purposes.				1 -
ı. Dogs					072
					272
5. Cats	-		272		
6. Guinea Pigs	12				200
					208
7. Hamsters			208		
8. Rabbits	5	+			
9. Non-Human Primates					
9. Non-Human China					
10. Sheep			_		
44 Pigs					
11. Pigs					
12. Other Farm Animals					
13. Other Animals					
				g appropriate use of anesthetic, analgesic, and tranquilizing di is research facility.	uas, prior to, during,

1) Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate the care of th

- Processionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACIIC) A summary of all the excentions is attached to this annual report. In Inis facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). A summary of all the exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.
- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use

principal midestifying the IACUC-approved exceptions.	
addition to identifying	1
addition to identifying the IACUC-approved exceptions addition to identifying the IACUC-approved exceptions and addition to identifying the IACUC-approved exceptions and its extension of its research facility has appropriate authority to ensure the provision of addition to identifying the IACUC-approved exceptions and its extension of its exten	1
aspects of animal care and use. CERTIFICATION BY HEADQUARTERS RESEARCH 11 Attachment of the care and use.	
	DATE SIGNED
(Chief Executive Officer of Legally (Tu.S.C. Section 2146) I certify that the above is true, correct, and complete (7 U.S.C. Section 2146) I certify that the above is true, correct, and complete (7 U.S.C. Section 2146) NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print) NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	1 5
Chief that the above is true, correct, and an appropriate the correct, and appropriate the correct the correc	1 . / / / 1
Triams & Title OF C.E.O. OR INSTITUTE	11/19/04
NAME UNIVERSITY OF A STATE OF THE STATE OF T	1////
SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL LOUIS G. LANGE, CHAIRMAN & CEO, TO	PTERS
SIGNATURE OF LATTER,	EADQUARTERS
Lange	
2 - 2	WALL OA 6

APHIS FORM 7023 (AUG 91)

(Replaces VS FORM 18-23 (Oct 88), which is obsolete

ured by lew (7JISC 2143). Feature to report according to the regulations cent.

to cease and desist and to be subject to penalties as provided for in Section 215.

Interagency Report Control No.:

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE CERTIFICATE NUMBER: 93-R-0448 CUSTOMER NUMBER: 8647



FORM APPROVED ONB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

Lychron, LLC+ 2569 Wyandotte

Mountain View, CA 94043

Telephone; (650) -938-3675

sperimentation, or held for these purposes. Attach additional she 3. REPORTING FACILITY (List all locations v

FACILITY LOCATIONS (Sites) - See Attiched Listing

REPORT OF ANIMALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY / Attach additional sheets if necessary or use APHIS Form 7023A 1/2 E. Number of enimals apon which reaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the enimals and for within use of appropriate prestricts a mayeric, or transplicitings would have adversely effected the procedures reaching research, experiments, surgery, or tests. (An explanation of the procedure in producing pain or distress in these minimals and the reasonable or truly were not used must be attached to the research. Number of animal which experiments, teaching, research, surgery, or tests were conducted involving being bred, conditioned, or TOTAL NUMBER OF ANDMALS Animals Cover By The Anima held for u accompanying pain or distract to the enimals (COLUMNS C+D+E) surgery but not ye used for such for which appropriate anesthelic, analysis, tranquilizing drugs wer _ 0 -132 13a -0 5. Cals 6. Guinea Pigs -o7. Hamsters 153 8. Rabbits 9. Non-human Primate 154 10. Sheep 12. Other Farm Animals Calves 13. Other Animals -:o

- is required that exceptions to the standards and regulations be specified and applicated by the principal investigant, and applicates is attached to this shrutal report. In addition to identifying the WOLG-approved exceptions, the summery in its effected.
- th facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of aramaticare and use.

CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official) DATE SIGNED NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Point): SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL

NOAH NOVICK

APHIS FORM 7023 (AUG 91)

Hotely 1/19/04

NUV 24 2004

				'A: K	GMCLAND
EST COPY AVAILABLE			EXOUR CHOOL	A J. J. Y. Inlersgency Report	Control No
This report is required by law (7 USC 27 result in an order to cease and desist a	Failure for eport according to the		rogilonal (10st) 31510M	R NO FORM APPE	@VED 9:0036
SUNITED SIA SUNITED SIA SUNITED SIANI	WEALTHINSPECT LYN STAN AND	THE STATE OF	THE RESEARCH PARTY.	Y/Name and Address as registers	d with USDA: 0
	OFRESEARCH FA	ierst in		MAGEUTICALS NTO VALLEY ROAD, STE 20 24, 92121 For these purposes, Attach adultion	A CONTRACT OF THE PROPERTY OF
REPORTING FACILITY (Ustaillocal		TOTAL STATE OF THE			
VANIR PHARMACEUTICALS					
AN DIEGO, CA 92121 B	EQUIPERSEARC	NFACE IN CARCAL SOCIETY A	eer //r Co. Giver us /AP S Co.	aw 7023A) Is upon which leaching, earch surgery or tests were ling accompanying pain or disress ing accompanying pain appropriate	F: TOTAL NO: OF ANIMALS
AT ALT THE DESCRIPTION OF THE PERSON OF THE				the leading, research	6 Je 30
Animals Covered by The Animal Welfare Regulations	held for use testing t	ment of comment of the comment of th	S ZIGARDAGO PROCESSOR AND STANDARD OF THE STA	the teaching research ingery or tests: (An explanation of producing pain or distress in these a reasons such drugs were not us led to this report)	ad J
	sirrery out not such sister such purposes reading such such such such such such such such			AND THE PROPERTY OF THE PROPER	1 200
4 Dogs				763	763
6. Gülnes Pigs.	50				The state of the s
7 Hamsters 8. Rabbits	9101 32 8			Property and the second	
9. Non-Human Primates 10. Sheep				Harry Market	
11: Pigs 12: Other Farm Animals					
13 Other Animals					(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
13 Outer Samuel				Ye.	Houss, prior to during,
ASSURANCE STATES	AENTS . Cospitable standards governing the could research reaching, testing, surjournessing to the company of the country of	are Articla protection and the second		their a stocks and tranquilizing	nd explained by the
1) Professionally a and solicowing as 2) Each principal	cceptable standards of culture and control of culture standards of culture standards and culture standards and regular standards and	es to seint i procedures one under the see and the second one under the see and the second		is all requestors be specified as a succeptions is a stacked to this succeptions is a stacked to this set as the species and rember of a species and rember of	
3) This facting at principal investigation to age	igalor and approved except nithing the IACUC approved except in this research facility	is and other than		CELLIFY OF JOHN	
	m julian julian	The state of the s	17 (1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	C SETION STREET OF THE SETIONAL OFFICIAL (1909)	Pint
SIGNATURE OF	C E.O. OR INSTITUTIONAL O	្រាមប្រើ	er concelle e		PART 1 - HEAT

Number + 0248.0449 / 19555#	

2/3. Species (common name) & Number of animals used in this stud

Guinea Pigs (763)

4. Explain the procedure producing pain and/or cistic

I... Female Hartley guinea pigs are inoculated intravaginally with HSv. 2) which will produce virus-induced lesions. The inoculation is accomplished using a moistened calcium alginate tipped swab soaked in an appropriate virus concentration, inoculation is accomplished using a moistened calcium alginate tipped swab soaked in an appropriate virus concentration. The swab is inserted into the vaginal tract rupturing the vaginal clessife membrane and it is rotated approximately 10 times. Topical treatment is given three times daily beginning 24 hours after viral inoculation and is continued for 10-11 days. Topical treatment will be applied using a cotton swab both intravaginally and topically to the perineal skin of the guinea pigs it. Female IAF HAZHO (Hairless) and Famey guinea pigs are inoculated with HSV-2, which will produce guinea pigs it. Female IAF HAZHO (Hairless) and Famey guinea pigs are inoculated with HSV-2, which will produce virus-induced lesions, by placing the viral inoculation of the center of the skin site inserting a tattoo needle into the pool of virus, and inoculating by drawing the electrically activated needle away, from the virus pool in six different directions. This virus, and inoculating by drawing the electrically activated needle away, from the virus pool in six different directions. This virus, and inoculating away from the center of the inoculation site with giscrete vesicles that can be counted. Treatment is initiated two hours after inoculation by topically applying accessments a glass rod using gentle circular rubbing. The animals will be treated 3-5 times per day to 4-6 (ays).

Provide scientific justification why pain and/or distress could not be relieved. State methods or means used to determine that pain and/or distress relief would interfere with test results. (For Federally mandated testing, see Item 6 below)

I and II. During all procedures, the guinea pigs are anesthetized using softurane to minimize both pain and stress. Topical analgesics cannot be used on the virus-riguised lesions without compromising the results of the study, since topical treatments themselves are being investigated, systemic energies such as NSAIDS or narcotic analgesics have effects on the immune system and would not be appropriate to use in this study because they will affect the immune system, which will then affect the reaction to the variables.

What, if any, federal regulations require this procedure? Creathe agency, the code of Federal Regulations (CFR) title number and the specific section number (e.g., ABA) Sec. (10.102).

Agency: None *

Approval Status: Approved/Disapproved By Date:

Disapproved Reason

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. CERTIFICATE NUMBER: 93-R-0450 CUSTOMER NUMBER: 12283

See attached form for additional information.

FORM APPROVED OMB NO. 0579-0036

Interagency Report Control No.:

ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

Allermed Laboratories 7203 Convoy Court San Diego, CA 92111

Telephone: (858) -292-1060

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, or experimentation, or held for these purposes. Attach additional sheets if necessary)

FACILITY LOCATIONS (Sites) - See Atached Listing

	ED BY OR LINDER CO	NTROL OF RESEARCE		The standar of animals upon which teaching, experiments,	F.
PORT OF ANIMALS USE Animals Covered By The Animal Welfare Regulations	Number of animal being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not ye used for such purposes.	C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use or pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals an for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for wh the use of appropriate anesthetic, analgesic, or tranquiliz drugs would have adversely affected the procedures, res or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reask such drugs were not used must be attached to this report	(COLUMN
Dogs		·	-		100
Cats	~ 1	160	42	-0	PA
Guinea Pigs	26	100			Jacking
- tamsters		-			- HAM
. Rabbits		-			
Non-human Primates		-			-
0. Sheep		1			
11. Pigs					
12. Other Farm Animals		-			
13. Other Animals				•	
	5				

APHIS FORM 7023 (AUG 91)

- 1) Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anestetic, analgesic, and tranquilizing drugs, prior to, during, and following actual rest teaching testing surgery or experimentation were followed by this research facility ASSURANCE STATEMENTS teaching, testing, surgery, or experimentation were followed by this research facility.

 - 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and as Institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC. Institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary in brief explanation of the exceptions, as well as the species and number of animals affected. 2) Each principal investigator has considered alternatives to painful procedures.
 - 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL

(Chief Executive Officer or Legally Responsible Institutional Official)

DATE SIGNE NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)

SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL

(Replaces VS FORM 18-23 (OCT 88), which is obsolete.)

UUI

s report is required by law (7 USC 2143). Failure to report according to the regulations can ult in an order to cease and desist and to be subject to penalties as provided for in Section 21s

UNITED STATES DEPARTMENT OF AGRICULTURE

ANIMAL AND PLANT HEALTH INSPECTION SERVICE

ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

See attached form for additional information. Interagency Report Control No.:

1. CERTIFICATE NUMBER: 93-R-0451 CUSTOMER NUMBER: 1133

FORM APPROVED OMB NO. 0579-0036

Xoma Corporation 2910 Seventh Street Berkeley, CA 94710

Telephone: (800) -544-9662



3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, or experimentation, or held for these purposes. Attach additional sheets if necessary)

FACILITY LOCATIONS (Sites) - See Atached Listing

		FACILI	TY LOCATIONS (Sites) 1 300	16 necessary or use APHIS Form 7023A)	
		ONTROL OF RESEARC	CH FACILITY (Attach additions	E. Number of animals upon which teaching, experiments,	F.
Animals Covered By The Animal Welfare Regulations	B. Number of animal being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not ye used for such purposes.	animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use or pain-relieving	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals an for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	All sheets if necessary or use APHIS Form 7023A \(\) E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for who the use of appropriate anesthetic, analgesic, or tranquilized rugs would have adversely affected the procedures, resort interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reas such drugs were not used must be attached to this report	(COLUMNS C+D+E
	purpeerr	drugs.			
4. Dogs					0
5. Cats		1	0	0	0
6. Guinea Pigs	0	0	0	O	24
7. Hamsters	0	211	P	0	
8. Rabbits	0	24			
9. Non-human Primat	es				
10. Sheep					
11. Pigs					
12. Other Farm Anima	als				
13. Other Animals					

- Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anestetic, analgesic, and tranquilizing drugs, prior to, during, and following actual respectively acceptable standards governing the care, treatment, and use of animals, including appropriate use of anestetic, analgesic, and tranquilizing drugs, prior to, during, and following actual respectively acceptable standards governing the care, treatment, and use of animals, including appropriate use of anestetic, analgesic, and tranquilizing drugs, prior to, during, and following actual respectively acceptable standards governing the care, treatment, and use of animals, including appropriate use of anestetic, analgesic, and tranquilizing drugs, prior to, during, and following actual respectively. ASSURANCE STATEMENTS

SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL

- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and a linear standards and regulations under the Act, and it has required that exceptions to the standards and regulations to identifying the IACLICARDITY ACTION A summary of all such exceptions is attached to this annual report. In addition to identifying the IACLICARDITY ACTION A summary of all such exceptions is attached to this annual report. This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and a institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary of animals affected by the exercise and number of animals affected.
- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL

(Chief Executive Officer or Legally Responsible Institutional Official)

DATE SIGN NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print) GI NOU EL Patrick J Scannon (40, Phi) (5MO

APHIS FORM 7023 (AUG 91)

AReplaces VS FORM 18-23 (OCT 88), which is obsolete.) Columb V To

NOV - 4

report is required by law (7 USC 2143). Failure to report according to the regulations can It in an order to cease and desist and to be subject to penalties as provided for in Section 215

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE CUSTOMER NUMBER:

See attached form for additional information. Interagency Report Control No.:

1. CERTIFICATE NUMBER: 93-R-0453 12957

FORM APPROVED OMB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

Nereus Pharmaceuticals 10480 Wateridge Circle San Diego, CA 92121

Telephone: (858) -587-4090

REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, or experimentation, or held for these purposes. Attach additional sheets if necessary)

FACILITY LOCATIONS (Sites) - See Atached Listing

		FACILI	Y LOCATIONS (Sites)	THE APHIS Form 7023A	
		DECEADO	H FACILITY (Attach additions	al sheets if necessary or use the teaching, experiments,	F.
Animals Covered By The Animal Welfare Regulations	B. Number of animal being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not ye used for such purposes.	ONTROL OF RESEARC C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use opain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals an for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilized us would have adversely affected the procedures, resor interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reast such drugs were not used must be attached to this report	TOTAL NUMBE OF ANIMALS (COLÚMN) C+D+E
Dogs	Ø	ϕ	Ø	<i>Φ</i>	Φ
Cats Guinea Pigs	ϕ	1 P	<i>D</i>	ϕ	φ \$
. Hamsters	P	Ø	<i>\$</i>	ϕ	\$
Non-human Primate	es Ø	D	\mathcal{B}	<i>D</i>	1
0. Sheep	ϕ	\mathcal{D}	J. J.	ϕ	T CP
12. Other Farm Anima	als Ø	Ø	φ	-	\$
13. Other Animals	P	Ф	φ	Ψ	
				in a classic and tranquilizing drugs, prior to, d	

- Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anestetic, analgesic, and tranquilizing drugs, prior to, during, and following actual retearching testing surgery or experimentation were followed by this research facility ASSURANCE STATEMENTS teaching, testing, surgery, or experimentation were followed by this research facility. 1)

 - This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and Institutional Animal Care and the Committee (IACLIC) A summary of all such exceptions is attached to this annual report. In addition to identifying the IACLIC) A summary of all such exceptions is attached to this annual report. This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and Institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary of all such exceptions is attached to this annual report. Each principal investigator has considered alternatives to painful procedures.
 - 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use

CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL

(Chief Executive Officer or Legally Responsible Institutional Official)

SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL

NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)

DATE SIG

APHIS FORM 7023

(Replaces VS FORM 18-23 (OCT 88), which is obsolete.)

(AUG 91)

Interagency Report Control No.:

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE 1. CERTIFICATE NUMBER: 93-R-0456 CUSTOMER NUMBER: 11108

FORM APPROVED OMB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY

(TYPE OR PRINT)

Vical, Inc.

10390 Pacific Center Court San Diego, CA 92121

Telephone: (858) -646-1247

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, or experimentation, or held for these purposes. Attach additional sheets if necessary)

FACILITY LOCATIONS (Sites) - See Atached Listing

		FACIL	TY LOCATIONS (**	OF USE APHIS Form 7023A	
DEPORT OF ANIMALS US	SED BY OR UNDER CO	NTROL OF RESEAR	CH FACILITY (Attach additiona	E Number of animals upon which teaching, experiments,	F.
A. Animals Covered By The Animal Welfare Regulations	B. Number of animal being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not ye used for such purposes.	Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use or pain-relieving drugs.	Number of ariminate which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals an for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	research, surgery or tests were conducted intenting accompanying pain or distress to the animals and for wh the use of appropriate anesthetic, analgesic, or tranquiliz drugs would have adversely affected the procedures, res or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reast such drugs were not used must be attached to this report	TOTAL NUMBER OF ANIMALS (COLUMNS C + D + E)
4. Dogs					
5. Cats					
6. Guinea Pigs					42
7. Hamsters			42		
8. Rabbits					
9. Non-human Primates					+
10. Sheep		-			
11. Pigs					
12. Other Farm Animals					
13. Other Animals				9	
					- following actual
				of anestelic, analgesic, and tranquilizing drugs, prior to, dur	ng, and following actual t

- 1) Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anestetic, analgesic, and tranquilizing drugs, prior to, during, and following actual retearching, testing, surgery or experimentation were followed by this research facility ASSURANCE STATEMENTS teaching, testing, surgery, or experimentation were followed by this research facility.

 - 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and Institutional Animal Care and Use Committee (IACUC) A summary of all such exceptions is attached to this angular specified. Instracting is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations and explained by the principal investigator and Institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summar by the exceptions as well as the exceptions as well as the exceptions as well as the exceptions and number of animals affected 2) Each principal investigator has considered alternatives to painful procedures.
 - 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official)

CERTIFICA (Chief Ex	TION BY HEADOGONITH (Transport Responsible Institutional Official)	DATE SIG
	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (1) year of care of the control	10/8
SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL	Alain Rolland (Institutional St. Vice President, Product Development	

(Replaces VS; FORM 18-23 (OCT 88), which is obsolete.) APHIS FORM 7023

(AUG 91)

11/2 if ZUN4 ZZ: ZN 4U0000 (TU)

This report is equired by low (7 USC 2143). Failure to report eccording to the regulations can result in an oil er to cases and desiral and to be subject to penalties as provided for in Soction 21. UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

4085887107

MATTHIAS RATH naitement leneifiche. 1. CERTIFICATE NUMBER: 93-R-0458

PAGE 01/01 eragency Report Control No.:

CUSTOMER NUMBER: 15140

shed form for

FORM APPROVED DMB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT.)

Matthias Rath, Inc. 1260 Memorex Drive Santa Clara, CA 95050

Telephone: (408) -588-7109

3. REPORTIN: FACILITY (List at locations where animals were housed or used in actual research, testing, or experimentation, or held for those purposes. Attach additional sheets if necessary)

FACILITY LOCATIONS (Siles) - See Ateched Listing

					cheets if necessary or use APTIS FORM TO	6
		SED BY OR UNDER CO	ONTROL OF RESEARC	H FACILITY ! Attach additiona	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which companying pain or distress to the animals and for wh	F
Animals by the	berevo:	B. Number of animal being bred, conditioned, or held for use in teaching, teating, experiments, research, or surgery but not ye used for auch purposes.	C. Number of shimals upon which teaching, research, experiments, or tests were conducted involving no pain, diagress, or use or pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or leasts were conducted involving accompanying pen of distress to the animals an for which appropriate grassitetic, analysis, or tranquilling drugs were used.	helicarch, surpery or tests were conducted involved a secondary secondary or distress to the animals and for with the use of appropriate anesthesic, analogatic, or tranquists the use of appropriate sheathers, canalogatic, or tranquists drugs would have adversely effected the procedures, read or interpretation of the teaching, recearch, experiments, surgery, or tests. (An explanation of the proceduring pain or distress in these animals and the read such drugs were not used must be attached to this report	(COLUMNS
í)ogs						0
, Cats			1			10
, Guines	Pk 3		1-			0
. Hamste	15		-			0
B. Rabbits			1			0
D. Non h	ime Primate	0				0
10. Sheep	-					0
11. Pigs			-			
12 Other	Farr Anima	ls				0
13. Othe	r Anin als					
		•	-			
					tale use of anestetic, analysisic, and tranquilizing drugs, prior to,	

ASSURANCE	TATEMENTS
ASSIRANCE	(pt . c

- Profine many enceptable elements governing the care, treatment, and use of animals, including appropriate use of anestesic, analgesic, and tranquilizing drugs, prior to, during, and following actual rose; leachin, healths, surgery, or experimentation were followed by this research facility.
- 3) This for, ity is eithering to the stendards and regulations under the Act, and it has required that exceptions to the stendards and regulations be specified and exceptions, and appropriate that it is a stendard and regulation to identifying the IACLIC-approved exceptions, this summary in Instituth hal Animal Gene and the Committee (IACLIC). A summary of all auch exceptions is attracted to this annual report. In addition to identifying the IACLIC-approved exceptions, this summary in the Instituth hal Animal Gene and the Committee (IACLIC). A summary of all auch exceptions are sufficiently in the Instituth half animal Gene and the Committee (IACLIC). As a summary of an auch exceptions are sufficiently in the Instituth half animal Gene and the Committee (IACLIC). As a summary of all auch exceptions are sufficiently in the Instituth half animal Gene and the Committee (IACLIC). As a summary of all auch exceptions are sufficiently in the Instituth half animal Gene and the Committee (IACLIC). As a summary of all auch exceptions are sufficiently in the Institute of Institute in the Institute
- 4) The aftire of the direction of the design of the design

(Chief Executive Officer or Legally Responsible Institutional Official)

NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)

SIGNATURE : F.E.E.O. OR INSTITUTIONAL OFFICIAL

CEO DON KARN

DATE SIGNED

APHIS PURM 123

(Replaces V5 FORM 18-23 (OCT 88), which is obscisse.)

(AUG 91

/ John Caller

nis report is required by law (7 USC 2143). Failure to report according to the regulations can sult in an order to cease and desist and to be subject to penalties as provided for in Section 215

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

ANNUAL REPORT OF RESEARCH FACILITY

(TYPE OR PRINT)

See attached form for additional information. Interagency Report Control No.:

1. CERTIFICATE NUMBER: 93-R-0459 CUSTOMER NUMBER: 15068

FORM APPROVED OMB NO. 0579-0036

Arena Pharmaceuticals 6166 Nancy Ridge Drive San Diego, CA 92121

Telephone: (858) -453-7200

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, or experimentation, or held for these purposes. Attach additional sheets if necessary)

FACILITY LOCATIONS (Sites) - See Atached Listing

				al sheets if necessary or use APHIS Form 7023A 1	
EPORT OF ANIMALS U Animals Covered By The Animal Welfare Regulations	B. Number of animal being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not ye used for such purposes.	CONTROL OF RESEARC C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use or pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals an for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for wh the use of appropriate anesthetic, analgesic, or tranquiliz drugs would have adversely affected the procedures, res or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reast such drugs were not used must be attached to this report	F. TOTAL NUMBER OF ANIMALS (COLUMNS C+D+E)
. Dogs					
Cats		\			
i. Guinea Pigs		1/2		2	
7. Hamsters		1	70		
8. Rabbits					
9. Non-human Primates	S	1	No.		
10. Sheep			Ma. C		
11. Pigs			25/1	le	
12. Other Farm Animals	5		E CO	States	
13. Other Animals				130	
	_				

- Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anestetic, analgesic, and tranquilizing drugs, prior to, during, and following actual respection, testing, surgery of experimentation were followed by this recease facility. ASSURANCE STATEMENTS teaching, testing, surgery, or experimentation were followed by this research facility.

 - 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and a Inis racility is aumening to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and a linearity in addition to identifying the IACUC-approved exceptions, this summary linearity and the exceptions at the exceptions of the exceptions at well as the specified and support of spinals offered.
 - 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official)

NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)

DATE SIGNI

SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL

JACK LIEF PRESIDEN + CED

APHIS FORM 7023 (AUG 91)

(Replaces VS/FORM 18-23 (OCT 88), which is obsolete.)

report is required by law (7 USC 2143). Failure to report according to the regulations can I report to required by law (1 000 2 140). Failure to report according to the regulations can alt in an order to cease and desist and to be subject to penalties as provided for in Section 215.

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

ANNUAL REPORT OF RESEARCH FACILITY

(TYPE OR PRINT)

See attached form for additional information. Interagency Report Control No.:

1. CERTIFICATE NUMBER: 93-R-0460

CUSTOMER NUMBER: 15691

FORM APPROVED OMB NO. 0579-0036

Rigel, Inc. 1180 Veterans Blvd So.San Francisco, CA 94080

Telephone: (650) -624-1100

. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, or experimentation, or held for these purposes. Attach additional sheets if necessary)

FACILITY LOCATIONS (Sites) - See Atached Listing

	NEW OR LINDER COM	NTROL OF RESEARC	CH FACILITY CARDON 2	E. Number of animals upon which teaching, experiments,	TOTAL NUMBE
PORT OF ANIMALS USEL Animals Covered By The Animal Welfare Regulations	Number of animal being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not ye used for such purposes.	C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use or pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals an for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	All sheets if necessary or use APHIS Form 7023A in the search, surgery or tests were conducted involving research, surgery or tests were conducted involving research, surgery or tests were conducted involving accompanying pain or distress to the animals and for what we use of appropriate anesthetic, analgesic, or tranquilizer drugs would have adversely affected the procedures, rese or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reast such drugs were not used must be attached to this report.)	OF ANIMALS (COLUMN! C + D + E
Dogs					10
Cats					10
Guinea Pigs					10
7. Hamsters		-			0
8. Rabbits					10
9. Non-human Primates					10
10. Sheep					0
11. Pigs					-
12. Other Farm Animals	-				0
13. Other Animals					-
10. Other random					
	·				
				opriate use of anestetic, analgesic, and tranquilizing drugs, prior to, d	during, and following

(AUG 91)

- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and legitations to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations to identifying the IACLIC approved exemptions this summary of all such exceptions is attached to this angular report. In addition to identifying the IACLIC A summary of all such exceptions is attached to this angular report. This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and Institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary brief exceptions are such as the specified and explained by the principal investigator and Investigator 2) Each principal investigator has considered alternatives to painful procedures. 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

brief explanation of the exceptions,	as well as the special as appropriate authority	y to ensure the provision of adequate	L·
brief explanation of the exceptions. The attending veterinarian for this	CERTIFICATION	/E CHIOO! -	
,	//	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OF Donald Payan, CSO+ Inc	fitutional Official 1025
SIGNATURE OF C.E.O. OR INSTITUT	SNAL OFFICIAL	Donald Payan, 1507 in	
(and b	/S FORM 18-23 (ØCT 88), which is obs	plete.)	2000
APHIS FORM 7023 (Replaces	(OCT 26 200

OCT 26 2004

This report is required by law (7 USC 2143). Failure to report according to the regulations can result in an order to cease and desist and to be subject to penalties as provided for in Section 2150.

See reverse side for additional information. Interagency Report Control No 0180-DOA-AN

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. REGISTRATION NO. 93-R-0461

CUSTOMER NO. 8232

FORM APPROVED OMB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

2. HEADQUARTERS RESEARCH FACILITY (Name and Address, as registered with USDA, ICHOR MEDICAL SYSTEMS, INC. 6310 NANCY RIDGE DR. #107 include Zip Code)

SAN DIEGO, CA 92121

ORTING FACILITY (List all lo	ocations where arimos me	FΔ	CILITY LOCA	TIONS(sites)		imentation, or held for these purposes. Attach addition	
ets if necessary.)							
TON CYSTEMS IN	VC.						
R MEDICAL SYSTEMS, IN DIEGO, CA 92121							
DIEGO, OA OZIZI							
						ADUS FORM 7023A)	
ORT OF ANIMALS USED BY C		TACILITY	/Δttach additi	onal sheets if neces	sary o	Number of animals upon which teaching,	F.
SUSED BY	OR UNDER CONTROL OF	RESEARCH FACILITY	D Number	of animals upon	E.	Number of animals upon which tests were experiments, research, surgery or tests were	TOTAL NO.
ORT OF ANIMALS GOED D	B. Number of	 Number of animals upon 	which e	periments,	1	experiments, research, surgery or less with a experiments, research, surgery or less with a conducted involving accompanying pain or distress to the animals and for which the use of appropriate to the animals and for which the use of appropriate to the animals and for which the use of appropriate to the animals and for which the use of appropriate to the animals and for which the use of appropriate to the animals and for which the use of appropriate to the animals and for which the use of appropriate to the animals and for which the use of appropriate to the animals and for which the use of appropriate to the animals and for which the use of appropriate to the animals and for which the use of appropriate to the animals and for which the use of appropriate to the animals and for which the use of appropriate to the animals and for which the use of appropriate to the animals and for which the use of appropriate to the animals and the use of appropriate to the appropriate to the use of the use of the use of the use of appropriate to the use of the u	OF ANIMALS
	animals being	which teaching.		research, or tests were	1 4	to the animals allo to the mine would	(Cols. C+
Animals Covered	bred, conditioned, or	research.	1	ad involving	1	have adversely affected the property	D+E)
By The Animal Welfare Regulations	held for use in	experiments, or tests were	m	anying pain or to the animals	1	interpretation of the teaching of	
Wellare Regulation	teaching, testing, experiments,	conducted	1	which appropriate	1	experiments, surgery, or tests. (An experiments) experiments, surgery, or tests. (An experiments) the procedures producing pain or distress in these the procedures producing pain or distress in these the procedures producing such drugs were not used	
	research, or	involving no pain, distress, or			1	the procedures producing pain or distress in the procedures producing pain or distress in the procedures producing pain or distress in the procedure pain or distress in the pro	
	surgery but not	use of pain-	tranqui used.	lizing drugs were	1	animals and the reasons of the must be attached to this report)	
	yet used for such purposes.	relieving drugs.	useu.		1		
	- purpos		1		1		
					\top		
Dogs							
					\neg		
Cats		T					
. Guinea Pigs		T					1
. I I - motors					١		
. Hamsters							
3. Rabbits					- 1		
3. Rabbita			1		-+		
9. Non-Human Primates					- 1		
9. 14011 11011101							
10, Sheep					١		
10. 0.100		1	1				1
11. Pigs							
12. Other Farm Animals	· · · · · · · · · · · · · · · · · · ·						
			1				
13. Other Animals			l				. [
						0	
							1
						`	
		1				use of anesthetic, analgesic, and tranquilizing drugs, icility.	

- Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of an following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). A summary of all the exceptions is attached to this annual report. In principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC) as summary includes a brief explanation of the exceptions as well as the species and number of animals affected addition to identifying the IACUC-approved exceptions. principal investigator and approved by the institutional Animal Care and Use Committee (IACUC). A summary of all the exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.
- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other

	addition to identifying the IACUC-approved exception	ority to ensure the provision of adequate very		
	addition to identifying the IACUC-approved exceptions addition to identifying the IACUC-approved exceptions. The attending veterinarian for this research facility has appropriate authors aspects of animal care and use.	HEADQUARTERS RESEARCH FACILITY OFFICIAL files or Legally Responsible Institutional official)		
Г	CERTIFICATION BY (Chief Executive O	HEADQUARTERS RESEARCH FACILITY fficer or Legally Responsible Institutional official) ove is true, correct, and complete (7 U.S.C. Section 2143) THAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or P.	Print)	DATE SIGNED
	certify that the abo	ove is true, correct, and complete (7 U.S.C. Section 2145) NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or P		11/23/2004
8	IGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL	Vice President	PART 1 - HE	ADQUARTER
1	andrew Hannaman		PART	

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE 1. CERTIFICATE NUMBER: 93-R-0462 CUSTOMER NUMBER: 15813

FORM APPROVED OMB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

Raven Biotechnologies 1140 Veterans Boulevard So.San Francisco, CA 94080

Telephone: (650) -624-2600

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, or experimentation, or held for these purposes. Attach additional sheets if necessary)

FACILITY LOCATIONS (Sites) - See Atached Listing

REPORT OF ANIMALS I	JSED BY OR UNDER C	ONTROL OF RESEAR	CH FACILITY (Attach additiona	sheets if necessary or use APHIS Form 7023A)	
A. Animals Covered By The Animal Welfare Regulations	B. Number of animal being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not ye used for such purposes.	C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use or pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or lests were conducted involving accompanying pain or distress to the animals an for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for whithe use of appropriate anesthetic, analgesic, or tranquiliz drugs would have adversely affected the procedures, resion interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reast such drugs were not used must be attached to this report	F. TOTAL NUMBER OF ANIMALS (COLUMNS C + D + E)
4. Dogs					
5. Cāts					
6. Guinea Pigs					ļ
7. Hamsters		18			
8. Rabbits					
9. Non-human Primates					
10. Sheep					
11. Pigs					
12. Other Farm Animals					
13. Other Animals					

ASSURANCE STATEMENTS

- Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anestetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research teaching, testing, surgery, or experimentation were followed by this research facility.
- 2) Each principal investigator has considered alternatives to painful procedures.
- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approximately appro Institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary in brief explanation of the exceptions, as well as the species and number of animals affected.
- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official)

SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL
SIGNATURE OF CE.U. UK INSTITUTE OF THE STATE
Tenne 1

DATE SIGNED

APHIS FORM 7023 AUG 91)

Interagency Report Control No.:

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE 1. CERTIFICATE NUMBER: 93-R-0466 CUSTOMER NUMBER: 17731

FORM APPROVED OMB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

Chemicon International, Inc. 28820 Single Oak Drive Temecula, CA 92590

Telephone: (760) -788-9692

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, or experimentation, or held for these purposes. Attach additional sheets if necessary)

FACILITY LOCATIONS (Sites) - See Atached Listing

				al sheets if necessary or use APHIS Form 7023A)	
REPORT OF ANIMALS U Animals Covered By The Animal Welfare Regulations	SED BY OR UNDER C B. Number of animal being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not ye used for such purposes.	ONTROL OF RESEARC C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use or pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals an for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for wh the use of appropriate anesthetic, analgesic, or tranquiliz drugs would have adversely affected the procedures, resor interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reast such drugs were not used must be attached to this report	F. TOTAL NUMBER OF ANIMALS (COLUMNS
4. Dogs					
5. Cats					
6. Guinea Pigs			·		
7. Hamsters					870
8. Rabbits	72	870			
9. Non-human Primates					
10. Sheep					
11. Pigs					
12. Other Farm Animals					648
	11	648			~
13. Other Animals					

- Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anestetic, analgesic, and tranquilizing drugs, prior to, during, and following actual rese ASSURANCE STATEMENTS teaching, testing, surgery, or experimentation were followed by this research facility.

 - 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and are Institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary is a placeful to explanation of the exceptions.
 - 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL

(Chief Executive Officer or Legally Responsible Institutional Official)

NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)

DATE SIGNE

TLITION ALSOFFICIAL Michael J. ANDREWS

(AUG-91)

Interagency Report Control No.:

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE 1. CERTIFICATE NUMBER: 93-R-0467 CUSTOMER NUMBER:

FORM APPROVED OMB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

Xeno Port, Inc. 3410 Central Expressway Santa Clara, CA 95051

Telephone: (408) -616-7311

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, or experimentation, or held for these purposes. Attach additional sheets if necessary)

FACILITY LOCATIONS (Sites) - See Atached Listing

EPORT OF ANIMALS USI Animals Covered By The Animal Welfare Regulations	Number of animal being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not ye used for such purposes.	Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use or pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals an for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	Sheets if necessarv or use APHIS Form 7023A) E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for when the use of appropriate anesthetic, analgesic, or tranquilid drugs would have adversely affected the procedures, reor interpretation of the teaching, research, experiments surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the resuch drugs were not used must be attached to this report.	(COLUMNS
. Dogs	_		_		_
5. Cats	-		_	_	
6. Guinea Pigs	_		_	-	
7. Hamsters		-	_		
8. Rabbits	_	-	_		
9 Non-human Primates	-	-	_	-	
10. Sheep	_		-	_	-
11. Pigs	-			-	
12. Other Farm Animals	_				
13. Other Animals No Animals C	overed by th	ne Animal Wa	elfare Regulations	S	
No Animais C	OVERED -				

- 1) Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anestetic, analgesic, and tranquilizing drugs, prior to, during, and following actual restances testing summers or experimentation were followed by this research facility ASSURANCE STATEMENTS teaching, testing, surgery, or experimentation were followed by this research facility.

 - 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and a Institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary brief explanation of the exceptions as well as the exceptions and number of animals affected.
 - 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official)

SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL

DATE SIGN NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print) Ronald W. Barrett, Ph.D., ČEO

(Replaces VS FORM 18-23 (OCT 88), which is obsolete.)

APHIS FORM 7023 (AUG 94)

NOV 19 2004

Interagency Report Control No.:

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE 1. CERTIFICATE NUMBER: 93-R-0468 CUSTOMER NUMBER: 18787

FORM APPROVED OMB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

Lab Research International, Inc. 3030 Bunker Hill Street, Ste 116 San Diego, CA 92109

Telephone: (619) -461-0801

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, or experimentation, or held for these purposes. Attach additional sheets if necessary) FACILITY LOCATIONS (Sites) - See Atached Listing

Animals Covered By The Animal Welfare Regulations	B. Number of enimal being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not ye used for such purposes.	C. Number of snimets upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use or pain-refeving drugs.	D. Number of enimals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals an for which appropriate enesthetic, enalgesic, or tranquilizing drugs were used.	E. Number of animets upon which teaching, experiments, research, surgery or tests were conducted involving accompanying peln or distress to the animets and for whithe use of appropriate enesthetic, analgesic, or franquiliz drugs would have adversely effected the procedures, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animate and the reast such drugs were not used must be attached to this report	TOTAL NUMBER OF ANIMALS (COLUMNS C+D+E)
	7	arugs.	78	X	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
i. Dogs	N N	<u> </u>	X	8	l &
5. Cats	6	-	LX.	0	8
6. Guinea Pigs		<u> </u>	l l	<u> </u>	K
7. Hamsters	102	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	<u> </u>	(0	40
8. Rabbits	X	40	0	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Q
9. Non-human Primates	72	13	<u>X</u>	8	8
10. Sheep	12	100	0	N	&
11. Pigs	E	8	N N	X	V
12. Other Farm Animals	8	1 5	<u> </u>	- Q	
			N	80	
13. Other Animals	Q	LQ.	- \	- Q	
		-			

- Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anestetic, analgesic, and tranquilizing drugs, prior to, during, and following actual reservances; teaching, testing, surgery, or experimentation were followed by this research facility. ASSURANCE STATEMENTS

 - 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approximation. This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulation to identifying the IACUC-approved exceptions, this summary in brief explanation of the exceptions, as well as the species and number of animals affected.

institutional Animal Care and use committee the species and mun brief explanation of the exceptions, as well as the species and mun	mber of animals affected. te authority to ensure the provision of adequate veterinary care and to overse CASTION BY HEADOLIARTERS RESEARCH FACILITY OFFICIAL	se the adequacy of other aspects of a	animal care and use.
The attending veterinarian for this research facility has appropriate CERTIFIC (Chief	Executive Officer or Legalty Responsible Institutional Official)		DATE SIGNED
SIGNATURE OF CS.O. OR INSTITUTIONAL OFFICIAL AVM. M.	S(.Ph)) U.P UPI	Ald Mag	10/05/04
AP IIS FORM 7023 (Replaces VS FORM 18-23 (OCT 88), white (AUG 91)	ch is oceoneus.)	00	12200
In Dec OL	•		
			DEO 1 4 0004

Interagency Report Control No.:

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE 1. CERTIFICATE NUMBER: 93-R-0468 CUSTOMER NUMBER: 18787

FORM APPROVED OMB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

Lab Research International, Inc. 3030 Bunker Hill Street, Ste 116 San Diego, CA 92109

Telephone: (619) -461-0801

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, or experimentation, or held for these purposes. Attach additional sheets if necessary

FACILITY LOCATIONS (Sites) - See Atached Listing

DEDORT OF ANIMALS I	ISED BY OR UNDER C	ONTROL OF RESEAR	CH FACILITY (Attach additiona	I sheets if necessary or use APHIS Form 7023A 1	
A. Animals Covered By The Animal Welfare Regulations	B. Number of animal being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not ye used for such purposes.	C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use o pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals an for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for wh the use of appropriate anesthetic, analgesic, or tranquiliz drugs would have adversely affected the procedures, res or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reast such drugs were not used must be attached to this report.)	TOTAL NUMBER OF ANIMALS (COLUMNS C + D + E)
4. Dogs	Ø	X	X	Q	8
5. Cats	G	72	X	2	82
6. Guinea Pigs		<u> </u>	l l		80
7. Hamsters	*2	Ø	<u> </u>	(0)	40
8. Rabbits	\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	40	Q	\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	1
9. Non-human Primates	12	8		<u>X</u>	8
10. Sheep	12	B	<u>X</u>	No.	8
11. Pigs	6	Ø.	W.	<u>Q</u>	1
12. Other Farm Animals	8	5	X	- Q	V
			- B	A	1
13. Other Animals	Q	Q	W	N. C.	¥ -
	-				

ASSURANCE STATEMENTS

- Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anestetic, analgesic, and tranquilizing drugs, prior to, during, and following actual results of animals, including appropriate use of anestetic, analgesic, and tranquilizing drugs, prior to, during, and following actual results of animals, including appropriate use of anestetic, analgesic, and tranquilizing drugs, prior to, during, and following actual results of animals, including appropriate use of animals, and tranquilizing drugs, prior to, during, and following actual results of animals, and appropriate use of animals, and appropriat teaching, testing, surgery, or experimentation were followed by this research facility.
- 2) Each principal investigator has considered alternatives to painful procedures.
- This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and are Institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary is brief explanation of the exceptions, as well as the species and number of animals affected.
- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL

(Chief Executive Officer or Legally Responsible Institutional Official)

SIGNATURE OF C.5.O. OR INSTITUTIONAL OFFICIAL

DVM.MSC

NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)

JN 1 1 AUN DES COTE AUY

DATE SIGNE

HIS FORM 7023 (AUG 91)

B. Number of animal

being bred,

See attached form for additional information. Interagency Report Control No.:

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE 1. CERTIFICATE NUMBER: 93-R-0469 CUSTOMER NUMBER: 18271

FORM APPROVED OMB NO. 0579-0036

TOTAL NUMBER

OF ANIMALS

ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

Number of

animals upon

Global Clinicals Inc. 6520 Platt Avenue, #305 West Hills, CA 91307

Telephone: (818) -340-8923

E. Number of animals upon which teaching, experiments,

research, surgery or tests were conducted involving

accompanying pain or distress to the animals and for wh

the use of appropriate anesthetic, analgesic, or tranquiliz

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, or experimentation, or held for these purposes. Attach additional sheets if necessary)

FACILITY LOCATIONS (Sites) - See Atached Listing REPORT OF ANIMALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY (Attach additional sheets if necessary or use APHIS Form 7023A)

Number of animals upon

which experiments,

teaching, research,

Animals Covered By The Animal Welfare Regulations	conditioned, or held for use in teaching, testing, experiments, research, or surgery but not ye used for such purposes.	which teaching, research, experiments, or tests were conducted involving no pain, distress, or use or pain-relieving drugs.	teaching, research; surgery, or tests were conducted involving accompanying pain or distress to the animals an for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	the use of appropriate anesthetic, analgests, or transpositions would have adversely affected the procedures, resor interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reast such drugs were not used must be attached to this report	(COLUMNS C+D+E)
Dogs	Ø	\varnothing	3		Ø
. Cats	Ø				Ø.
Guinea Pigs	, Ø.			V	Ø
. Hamsters	Ø.				Ø
3. Rabbits	Ø				K
). Non-human Primates	Ø				6
0. Sheep	Ċ.				0
1. Pigs	'Ø				Q.
12. Other Farm Animals	Ø				Ø.
	,				0
13. Other Animals	Ø				
				c	
ASSURANCE STATEMEN	ITS		diag contentiate I	use of anestetic, analgesic, and tranquilizing drugs, prior to, during,	and following actua

- teaching, testing, surgery, or experimentation were followed by this resear
- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approximately a standards and regulations are considered to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations are considered to the standards are considered to I has taching to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and appropriate the standards and regulations to the standards and regulations be specified and exceptions to the standards and regulations to identifying the IACUC-approved exceptions, this summary interference that the standards and the standards are standards and the standards and the standards are standards and the standards and the standards are standards as the standards are standards and the standards are standards and the standards are standards and the standards are standards as the standards are standards and the standards are standards as the s
- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

The attending veterinarian for this research facility	has appropriate determine	PER DESEABON EACH ITY OFFICIAL
		QUARTERS RESEARCH FACILITY OFFICIAL
	Chief Executive Officer of	Legally Responsible Institutional Official)
	(Chief Executive amount	

DATE SIGNED

SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL

NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print) Chris Balur Pres

APHIS FORM 7023. (AUG 91)

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE 1. CERTIFICATE NUMBER: 93-R-0470 10326 CUSTOMER NUMBER:

FORM APPROVED OMB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY

(TYPE OR PRINT)

Canji, Inc.

3525 John Hopkins Ct San Diego, CA 92121

Telephone: (858) -646-5919

. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, or experimentation, or held for these purposes. Attach additional sheets if necessary)

FACILITY LOCATIONS (Sites) - See Atached Listing

	•			the tracks if pacessary or use APHIS Form 7023A)	
REPORT OF ANIMALS US	ED BY OR UNDER CO	NTROL OF RESEARC	CH FACILITY (Attach addition:	Thumber of animals upon which teaching, experiments,	F. TOTAL NUMBER
A. Animals Covered By The Animal Welfare Regulations	Number of animal being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not ye used for such purposes.	Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use or pain-relieving drugs.	which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals an for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	research, surgery or tests were conducted involving accompanying pain or distress to the animals and for when the use of appropriate anesthetic, analgesic, or tranquilized rugs would have adversely affected the procedures, reseor interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reast such drugs were not used must be attached to this report	OF ANIMALS (COLUMNS C + D + E)
4. Dogs					
5. Cats		<u>'</u>			
6. Guinea Pigs	1,				109
7. Hamsters			109		109
8. Rabbits			- 1		
9. Non-human Primates					
10. Sheep					
11. Pigs					
12. Other Farm Animals					
13. Other Animals					
				of expectatic analgesic, and tranquilizing drugs, prior to, duri	

ASSURANCE STATEMENTS

- Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anestetic, analgesic, and tranquilizing drugs, prior to, during, and following actual resteaching, testing, surgery, or experimentation were followed by this research facility.
- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and a locality is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and a locality is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and a locality is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations the IACLIC assertion of the standards and regulations are applied to the standards and regulations are applied to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations to identifying the IACLIC assertion. Instability is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and a listitutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary brief explanation of the exceptions as well set the exceptions and number of primals affected
- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official)

NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)

DATE SIGN

SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL

SITE HEAD & SOULL DIRECTOR - CANTI INC.

APHIS FORM 7023 (AUG 91)

This report is required by law (7 USC 2143). Failure to report according to the regulations can result in an order to cease and desist and to be subject to penalties as provided for in Section 2150. See reverse side for additional information. Interagency Report Control No 0180-DOA-AN

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. REGISTRATION NO. 93-R-0471

CUSTOMER NO. 19371

FORM APPROVED OMB NO. 0579-0036

2. HEADQUARTERS RESEARCH FACILITY (Name and Address, as registered with USDA, CALIFORNIA FISH & GAME include Zip Code) 1451 SHAFFER RD

ANNUAL REPORT OF RESEARCH FACILITY SANTA CRUZ, CA 95060 (TYPE OR PRINT) 3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets if necessary.)

ets if necessary.)			ILITY LOCATIONS(SICE)		
INE WILDLIFE VETERINAF	RY CARE & RESEARC	HCENIER			
INE WILDLIFE VETERINA					
TA CRUZ, CA 95060					
		:		TOPM 7023A)	
			Attach additional sheets if necess	sary or use APHIS FORM 1625117	F.
21/0	D LINDER CONTROL OF	RESEARCH FACILITY	Attach addition	Number of animals upon which teaching, experiments, research, surgery or tests were experiments, research, surgery or tests were experiments accompanying pain or distress.	TOTAL NO.
ORT OF ANIMALS USED BY C	B. Number of	C. Number of	which experiments,	conducted livolving deserving a set contontiate	OF ANIMALS
	animals being	animals upon which teaching,		to the animals did to the manage would	(Cols. C+
Animals Covered	bred.	research.	surgery, or tests were conducted involving	anesthetic, all algests, of the procedures, results, of	D+E)
By The Animal	conditioned, or held for use in	experiments, or	Imoanving Dalli Vi	interpretation of the today of the evaluation of	
Welfare Regulations	teaching, testing,	tests were conducted	I to see to the animals	aunoriments, Sulucity of the se	
	experiments,	involvina no	and for which appropriate anesthetic, analgesic, or	the procedures process such drugs were not used	
	research, or surgery but not	pain, distress, or	tranquilizing drugs were		
	vet used for such	use of pain- relieving drugs.	used.	, most a	
	purposes.	Telleving drogs			
		1			1
D					
Dogs		1			
0-1-					
Cats	1	1			
o tesa Dige					
6. Guinea Pigs					
- II-metors					
7. Hamsters					
- Dabbite					
8. Rabbits		1			
9. Non-Human Primates					
9. Non-Human					
40 Choon					
10. Sheep					1
44 Digs					
11. Pigs					
12. Other Farm Animals					
12. 0010. 12.		•			
_					
		1			2
13. Other Animals		_			
		2			
Southern Sea Otter					
	1			oriate use of anesthetic, analgesic, and tranquilizing drugs,	prior to, during,

ASSURANCE STATEMENTS

- 1) Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research teaching testing surgery or experimentation were followed by this research facility Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of an following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the lactificianal Animal Care and Line Committee (IACLIC). A summand of all the expensions in the standards and regulations under the Act, and it has required that exceptions to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). A summary of all the exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected. 2) Each principal investigator has considered alternatives to painful procedures.
- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other

	addition to identifying the IACOC approved to cility has appropriate autho	ority to ensure the provision and	
	addition to identifying the IACOC-approved The attending veterinarian for this research facility has appropriate authors The attending veterinarian for this research facility has appropriate authors and the second care and use.	HEADQUARTERS RESEARCH FACILITY OFFICIAL History or Legally Responsible Institutional official)	
	CERTIFICATION BY	HEADQUARTER Responsible Institutional Officially	T = 1 = CICNED
	(Chief Executive Of	HEADQUARTERS RESEARCH FACILITY fficer or Legally Responsible Institutional official) five is true, correct, and complete (7 U.S.C. Section 2143) NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED
١	certify that the abo	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	09/27/2004
L	an NICTITUTIONAL OFFICIAL		
ľ	SIGNATURE OF CIEFF	Senior Wildlife Veterinarian	RT 1 - HEADQUARTER
١	David A. Jessup		
1		ich is obsolete	

					+
by law (7 USC 2143). Uses and desist and to b	Failure to report according to the subject to penalties as proving the properties of the province of the provi	ne regulations can ded for in Section 21t LTURE FRVICE	addition 1. CERTIFICATE NUMBER: CUSTOMER NUMBER:	1-0	,
ase and	EPARTMENT OF AGRICU HEALTH INSPECTION S	EKVIO	Usa Universebbi	oengineering, Inc onwealth Ave., Suite B 2833	· · · · · · · · · · · · · · · · · · ·
NIMAL AND PLANT	FILU (-		Usa Universa	onwealth Aven	\ \
		~!! ITY	2021 W. Commo Fullerton, CA 9	2833	\ \
	ORT OF RESEAR((TYPE OR PRINT)	CH FACILITY	Fullenon, 9	14) -526-28 ⁹²	
BEPC	ORT OF RESEARCE		Telephone: (1	14)	
NNUAL RE.	(TYPE OK TIME			additional sheets if necessal	YI
	1			Attach addition	
4			ung or experimentation, o	r held to: a	
		used in actual rese	arch, testing, o.	1 Listing	
	where animals were t	loused or uses	ATIONS (Sites) - See Ataches	I Listing Bets if necessary or use APHIS Form 7023A \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	F.
EAGILITY (List all I	locations wite.	FACILITY LOC	-ditional sh	eets if necessary or use APTIO . Number of animals upon which teaching, experiments, Number of animals upon which teaching, experiments, Number of animals upon which teaching, experiments, See an alique of the control of the co	TOTAL NUMBER
3172		TARCH FA	CILITY (Attach addition	Number of animals upon which teaching. Number of animals upon which teaching. Number of animals upon which teaching. Number of animals upon which teach animals and for which the surface of the pain or distress to the animals and for which accompanying pain or distress to the animals and for which accompanying pain or distress the use of appropriate anesthetic. analysis of appropriate anesthetic animals are would have adversely affected the procedures would have adversely affected the procedures.	OF ANIMALS
	CONTI	ROL OF RESEARCH	Number of animals upon	Number of tests to the alimit research, surgery or tests to the alimit accompanying pain or distress to the alimit accompanying pain or distress the use of appropriate anesthetic, analgesic, or tranquilization of appropriate anesthetic and the procedures the use of appropriate anesthetic account of the procedures are the procedures ar	(COLUMNS
WALS USE	ED BY OR UNDER CO	Number of	which experiments,	research accompanying pain under an easthetic, analyse accompanying pain under an easthetic, and are procedures, texture use of appropriate an easthetic and the procedures, the use of appropriate and the teaching, research, experiments, drugs would have adversely or tests. (An explanation of the procedures or interpretation of the teaching and the reason of the procedures or interpretation of the procedures or interpretation of the procedures.)	C+D+E)
OF ANIMALS	Number of animal C.	animals upon which teaching,	surgery, or tests were conducted involving conducted involving	the use of appropriate the use of appropriate drugs would have adversely affected, experimental drugs would have adversely affected, research, experimental or interpretation of the teaching, research, experimental drugs vinterpretation of the procedures or interpretation of the procedures or interpretation of the producing pain or distress in these animals and the responsibility of the producing pain or distress in these animals and the responsibility of the producing pain or distress in these animals and the responsibility of the producing pain or distress the producing pain or distribution or distributi	w /
-	bomburaned, of	resements, or	accompany animals an	producing pain of used must be	10
	held for use testing.	tests were	distress to appropriate	SUCHES	0
mals Covered y The Animai	experiment	conducted involving no pain, involving or use o	anesthetic, analgesion tranquilizing drugs were		1
The Anima. are Regulations		involving no per distress, or use o pain-relieving	used.	0	1
	used for such purposes.	drugs.	0	+	
	puip	0	0	0	7 0
	10	(3)			10
ogs			0		
	10	T 0-	0	0	
cats	10_	10			
Guinea Pigs	10		1 0	1	
Hamsters		7 9	+ 6-		\
	- 0	10	2		
Rabbits			0		

9. Non-human Primates 0 0 10. Sheep 0 Ò 11. Pigs 12. Other Farm Animals

Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anestetic, analgesic, and tranquilizing drugs, prior to, during, and following actual professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anestetic, analgesic, and tranquilizing drugs, prior to, during, and following actual professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anestetic, analgesic, and tranquilizing drugs, prior to, during, and following actual professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anestetic, analgesic, and tranquilizing drugs, prior to, during, and following actual professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anestetic, analgesic, and tranquilizing drugs, prior to, during, and following actual professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anestetic, analgesic, and tranquilizing drugs, prior to, during, and following actual professional pr 13. Other Animals

This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to this annual report. In addition to identifying the IACUC-approved exceptions, this sum.

This facility is adhering to the standards and regulations under the Act, and it has required that exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, in a standards and regulations under the Act, and it has required that exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, and it has required that exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, and it has required that exceptions and the exception of adequate veterinary rare and to oversee the adequator of other received that the provision of adequate veterinary rare and to oversee the adequator of other received that the received the provision of adequate veterinary rare and to oversee the adequator of other received that the received the provision of adequate veterinary rare and to oversee the adequator of other received that the received that the received the provision of adequate veterinary rare and to oversee the adequator of other received that the received t ASSURANCE STATEMENTS

- The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and the provision of adequate veterinary Each principal investigator has considered alternatives to painful procedures.

DANKY PANG SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL

TM 18-23 (OCT 88), which is obsolete.)

Interagency Report Control No.:

1. CERTIFICATE NUMBER: 93-R-0473 CUSTOMER NUMBER: 21397

FORM APPROVED OMB NO. 0579-0036

ANIMAL AND PLANT HEALTH INSPECTION SERVICE

UNITED STATES DEPARTMENT OF AGRICULTURE

ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

La Jolla Bioengineering Institute 505 Coast Blvd, South La Jolla, CA 92037

Telephone: (111) 111-1111 (858) 456-7500

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, or experimentation, or held for these purposes. Attach additional sheets if necessary)

FACILITY LOCATIONS (Sites) - See Atached Listing

B. Number of animal being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not ye used for such purposes.	C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use or pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals an for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for wh the use of appropriate anesthetic, anaigesic, or tranquiliz drugs would have adversely affected the procedures, res or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reast such drugs were not used must be attached to this report	F. TOTAL NUMBER OF ANIMALS (COLUMNS
0	0	0	0	<u> </u>
	0	0	6	0
	0	0	0	0
0	0	0	O	0
0	0	0	δ	0
0	0	0	0	
0	0	0	Ō	0
0	0	0	0	0
0	0	0	0	- 0
None				
	B. Number of animal being bred, conditioned, or held for use in teaching, lesting, experiments, research, or surgery but not ye used for such purposes.	B. Number of animal being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not ye used for such purposes. O O O O O O O O O O O O O	B. Number of animal being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not ye used for such purposes. O O O O O O O O O O O O O O O O O O O	B. Number of animal being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not ye used for such purposes. O O O O O O O O O O O O O O O O O O O

ASSURANCE STATEMENTS

- Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anestetic, analgesic, and tranquilizing drugs, prior to, during, and following actual rese teaching, testing, surgery, or experimentation were followed by this research facility.
- 2) Each principal investigator has considered alternatives to painful procedures.
- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and ap Institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary inc brief explanation of the exceptions, as well as the species and number of animals affected.
- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL

(Chief Executive Officer or Legally Responsible Institutional Official)

NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print) OHNA, FRANCOS, President/CEO 18/1/00 OCT -5 2004

APHIS FORM 1023 (AU& 91)

SIGNATURE OF C.E.O.

See reverse side for additional information. Interagency Report Control No 0180-DOA-AN

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE 1. REGISTRATION NO. 93-R-0474 CUSTOMER NO. 20731

FORM APPROVED OMB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY

(TYPE OR PRINT)

HEADQUARTERS RESEARCH FACILITY (Name and Address, as registered with USDA, include Zip Code)

 MANNKIND CORP
 28903 NORTH AVENUE PAINE
 VALENCIA, CA 91355

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets if necessary.)

FACILITY LOCATIONS(sites)

MANNKIND CORP
VALENCIA, CA 91355

Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	Esary or use APHIS FORM 7023A) E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report)	F. TOTAL NO. OF ANIMALS (Cols. C+ D+E)
4. Dogs					
5. Cats					
6. Guinea Pigs					
7. Hamsters	ı				
8. Rabbits					
9. Non-Human Primates					
10. Sheep					
11. Pigs	,				
12. Other Farm Animals					
13. Other Animals					<u> </u>
					<u> </u>
				•	

- 1) Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
- 2) Each principal investigator has considered alternatives to painful procedures.
- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). A summary of all the exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.
- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional official) I certify that the above is true, correct, and complete (7 U.S.C. Section 2143)				
SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED		
	078116049036077103114105119032070102118120119117116052041080115103118 109105107117124	09/28/2004		

3768

Interagency Report Control No.:

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE 1. CERTIFICATE NUMBER: 93-R-0475

CUSTOMER NUMBER:

FORM APPROVED OMB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY

(TYPE OR PRINT)

The Marine Mammal Center Marin Headlands 1065 Ft Cronkhite Sausalito, CA 94965

Telephone: (415) -289-7337

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, or experimentation, or held for these purposes. Attach additional sheets if necessary)

FACILITY LOCATIONS (Sites) - See Atached Listing

DEDORT OF ANIMALS II	SED BY OR UNDER CO	ONTROL OF RESEARC	H FACILITY (Attach additional	sheets if necessary or use APHIS Form 7023A)	
		C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use or pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals an for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for wh the use of appropriate anesthetic, analgesic, or tranquiliz drugs would have adversely affected the procedures, res or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasc such drugs were not used must be attached to this report.)	F. TOTAL NUMBER OF ANIMALS (COLUMNS C + D + E)
4. Dogs	0				
5. Cats	0				
6. Guinea Pigs	0				
7. Hamsters	0				
8. Rabbits	O				
9. Non-human Primates	O				
10. Sheep	0				
11. Pigs	0				
12. Other Farm Animals	0				+
			7 100		
13. Other Animals	0	8 Conformians	4 sections	0	
				e	1
				`	

ASSURANCE STATEMENTS

- 1) Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anestetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research teaching, testing, surgery, or experimentation were followed by this research facility.
- 2) Each principal investigator has considered alternatives to painful procedures.
- This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and appropriate that exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary in institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. brief explanation of the exceptions, as well as the species and number of animals affected.
- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

4) The attending votermand.	
	CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL
	(Chief Executive Officer or Legally Responsible Institutional Official)

ORMINSTITUTIO NAL OFFICIAL SIGNATURE

NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)

B. J. Griffin, Executive Director

APHIS FORM 7023 (AUG 911)

(OCT 88), which is obsolete.) (Replaces VS FOR

V 037 25 2014

See reverse side for additional information.

Interagency Report Control No. 0180-DOA-AN

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. REGISTRATION NO.

CONTINUATION SHEET FOR ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

93-R-0472 OMB NO. 0579-0036

2. HEADOUARTERS RESEARCH FACILITY (Name and Address, as registered with USDA USA Universe Bisergineering, Inc. 2021 W. Commonwealth Are IB Fallerton CA 92/22

REPORT OF ANIMALS USED BY (ON UNDER CONTROL C	F RESEARCH FACILIT	Y (Attach adiditional sheets if n	on, CA 92/33	_
Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or	animals upon which teaching, research, experiments, or tests were conducted	Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or	Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected.	F. TOTAL NO. OF ANIMAL:
12. &/OR 13. Other (List by species)	surgery but not yet used for such purposes.	involving no pain, distress, or use of pain- relieving drugs.	distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	interpretation of the leaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons, such drugs were not used must be attached to this report).	(Cols. C + D + E)
700102	0	0	G	٥	C
t <u>.</u>					
	·				
		<u>`</u>			
					<u> </u>
					·
		1			
SURANCE STATEMENTS					

- Professionally acceptable standards governing the care, treatment, and use of animals, including approriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and followed by this research leading.
- 2). Each principal investigator has considered alternatives to painful procedures.
- 3). This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.
- The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of

(Chief Exec	ION BY HEADQUARTES cutive Officer or Legally Ri y that the above is true, correct, and	RESEARCH FACI esponsible Instituti	LITY OFFICIAL
	, the above is true, correct, and	d complete (7 U.S.C. Section	on 3140
LOFFICIAL		, , , , , , , , , , , , , , , , , , ,	OH 2143).

SEP 2 4 2004

MATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL

NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)

DATE SIGNED

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE 1. CERTIFICATE NUMBER: 93-R-0476

CUSTOMER NUMBER: 3620 FORM APPROVED OMB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

Monterey Bay Aquarium 886 Cannery Row Monterey, CA 93940

Telephone: (831) -648-4800

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, or experimentation, or held for these purposes. Attach additional sheets if necessary)

Aquarium, 886 Cannery Row, Monterey, CA

REPORT OF ANIMALS L	JSED BY OR UNDER (CONTROL OF RESEAR	CH FACILITY (Attach additional	al sheets if necessarv or use APHIS Form 7023A)	
A. Animals Covered By The Animal Welfare Regulations	B. Number of animal being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not ye used for such purposes.	C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use or pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals an for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for wh the use of appropriate anesthetic, analgesic, or tranquilitz drugs would have adversely affected the procedures, res or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasc such drugs were not used must be attached to this report	F. TOTAL NUMBER OF ANIMALS (COLUMNS C + D + E)
4. Dogs					ģ
5. Cats		·			ø
6. Guinea Pigs	1				Q
7. Hamsters				·	Þ
8. Rabbits					Q
9. Non-human Primates					Q
10. Sheep					×
11. Pigs					þ
12. Other Farm Animals					Ř
13. Other Animals					
So. Sea Otter		3	1	-0-	4
(Enhydra lutri	s nereis)				

ASSURANCE STATEMENTS

- 1) Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anestetic, analgesic, and tranquilizing drugs, prior to, during, and following actual reservables teaching, testing, surgery, or experimentation were followed by this research facility.
- 2) Each principal investigator has considered alternatives to painful procedures.
- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approximately appro Institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary in brief explanation of the exceptions, as well as the species and number of animals affected.

4) The attending veterinarian for this research facility has appropriate au	thority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of	or animal care and use.
	ION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL cutive Officer or Legally Responsible Institutional Official)	
SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED
for Hell	Jim Hekkers	11.10.200
APHIS FORM 7023 (Replaces VS FORM 18-23 (OCT 88), which is	obsolete.)	•

See reverse side for additional information. Interagency Report Control No 0180-DOA-AN

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE 1. REGISTRATION NO. 93-R-0477

CUSTOMER NO. 20031

FORM APPROVED OMB NO. 0579-0036

18

6

ANNUAL REPORT OF RESEARCH FACILITY

(TYPE OR PRINT)

2. HEADQUARTERS RESEARCH FACILITY (Name and Address, as registered with USDA, include Zip Code) SMITH -KETTLEWELL EYE RESEARCH INSTITUTE

2318 FILLMORE STREET SAN FRANCISCO, CA 94115

THE TANK TACK ITY (List a	Il locations where animals v	vere housed or used in ac	ctual research, testing, teaching	g, or experimentation, or held for these purposes. Attach add	itional
sheets if necessary.)	an locations where an ince		ACILITY LOCATIONS(sites)		
THE SMITH - KETTLEWELL SAN FRANCISCO, CA 9411	EYE RESEARCH INST	ITUTE			
		+	(August additional sheets if ner	ressary or use APHIS FORM 7023A)	
A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	F RESEARCH FACILITY C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	experiments, research, surgery of tests more conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these control and the procedures are not used.)	(Cols. C + D + E)
4. Dogs					<i>a</i>

18

6

1) Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, **ASSURANCE STATEMENTS** and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.

Each principal investigator has considered alternatives to painful procedures.

- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). A summary of all the exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.
- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

aspects of animal care and use.	TA OU TY OFFICIAL	
(Chief Executive (Y HEADQUARTERS RESEARCH FACILITY OFFICIAL Officer or Legally Responsible Institutional official)	
		DATE SIGNED
SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED
SIGNATURE OF C.E.O. OR INSTITUTIONAL STATES		11/29/2004
Ruth Poole	Ruth Poole, Chief Operating Officer	
Train solo		ALLA DEFEDO

5. Cats

6. Guinea Pigs

7. Hamsters 8. Rabbits

10. Sheep 11. Pigs

9. Non-Human Primates

12. Other Farm Animals

13. Other Animals

Interagency Report Control No.:

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. CERTIFICATE NUMBER: 93-R-0479 CUSTOMER NUMBER:

18820

FORM APPROVED OMB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

Valley Biosystems P.O. Box 2216

West Sacramento, CA 95691

Telephone: (916) -374-2735

REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, or experimentation, or held for these purposes. Attach additional sheets if necessary)

FACILITY LOCATIONS (Sites) - See Atached Listing

CEPORT OF ANIMALS	USED BY OR UNDER		CH FACILITY (Attach addition	al sheets if necessarv or use APHIS Form 7023A)	
Animals Covered By The Animal Welfare Regulations	B. Number of animal being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not ye used for such purposes.	C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use o pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals an for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for wh the use of appropriate anesthetic, analgesic, or tranquiliz drugs would have adversely affected the procedures, rese or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasc such drugs were not used must be attached to this report	F. TOTAL NUMBER OF ANIMALS (COLUMNS C + D + E)
Dogs					
Cats					
Guinea Pigs	·				
Hamsters		1	-		
Rabbits					
Non-human Primates	95	7	0	0	7
Sheep					·
Pigs				·	
Other Farm Animals					
Other Animals					

- 1) Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anestetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research teaching, testing, surgery, or experimentation were followed by this research facility.
- 2) Each principal investigator has considered alternatives to painful procedures.
- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approximately Institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary in brief explanation of the exceptions, as well as the species and number of animals affected.
- 1) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use

		arminar baro aria abo.
	ADQUARTERS RESEARCH FACILITY OFFICIAL er or Legally Responsible Institutional Official)	
NATURAOF C.E.O. OR INSTITUTIONAL OPPICIAL	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED
Without Polis	Jeffry Roberts DVM	11-29-04
IS FORM 7023 (Replaces VS FORM 18-23 (OCT 88), which is obsolete.)		

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. CERTIFICATE NUMBER: 93-R-0480
CUSTOMER NUMBER: 22845

80

FORM APPROVED OMB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

In-Vivo Technologies, Inc. 863-A Mitten Road Burlingame, CA 94010

Telephone: (650) -888-6079

REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, or experimentation, or held for these purposes. Attach additional sheets if necessary)

FACILITY LOCATIONS (Sites) - See Atached Listing

REPORT OF ANIMALS I	USED BY OR UNDER	CONTROL OF RESEAR	CH FACILITY (Attach additiona	I sheets if necessary or use APHIS Form 7023A)	
Animals Covered By The Animal Welfare Regulations	B. Number of animal being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not ye used for such purposes.	C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use or pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals an for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for wh the use of appropriate anesthetic, analgesic, or tranquiliz drugs would have adversely affected the procedures, res or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reask such drugs were not used must be attached to this report	F. TOTAL NUMBER OF ANIMALS (COLUMNS C + D + E)
I. Dogs					
5. Cats					
3. Guinea Pigs			224		224
7. Hamsters			84		84
3. Rabbits			76		76
3. Non-human Primates					
0. Sheep					
1. Pigs					
2. Other Farm Animals					
3. Other Animals					
				,	

ASSURANCE STATEMENTS

- 1) Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anestetic, analgesic, and tranquilizing drugs, prior to, during, and following actual reserve teaching, testing, surgery, or experimentation were followed by this research facility.
- 2) Each principal investigator has considered atternatives to painful procedures.
- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and apr Institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary in brief explanation of the exceptions, as well as the species and number of animals affected.
- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official)

SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL

NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)

DATE SIGNED

5. Anne Pletcher, CEO and President

24 Nov. 04

APHIS FORM 7023 (AUG 91) (Replaces VS FORM 18-23 (OCT 88), which is obsolete.)

side folk

See reverse side for additional information.

Interagency Report Control No 0180-DOA-AN

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE 1. REGISTRATION NO. 93-R-0481

CUSTOMER NO. 22844

FORM APPROVED OMB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY

(TYPE OR PRINT)

2. HEADQUARTERS RESEARCH FACILITY (Name and Address, as registered with USDA, include Zip Code) KIOSEA, DVM, MATEI M 11808 SUSAN DRIVE GRANADA HILLS, CA 91344

(818) 470-8200

REPORTING FACILITY (List all locations where animals were housed or used in actual research	testing, teaching, or experimentation, or held for these purposes. Attach additional
REPORTING FACILITY (List all locations where animals were noused or used in account sheets if necessary.) FACILITY LOCATION FACILITY LOCATI	ATIONS(sites)
See Attached Listing	
1935/ Londelius St.	
Northnoge: CA91324	10 UO FORM 70234)
ON THE PLANT OF LINDER CONTROL OF RESEARCH FACILITY (Attach addit	ional sheets if necessary or use APHIS FORM 1025A)

PORT OF ANIMALS USED BY C Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	RESEARCH FACILITY C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	Early or use APHIS FORM 7023A) E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report)	TOTAL NO. OF ANIMALS (Cols. C + D+E)
Dogs					
. Cats . Guinea Pigs					
. Hamsters		25			25
3. Rabbits		15			
9. Non-Human Primates 10. Sheep					
11. Pigs					
12. Other Farm Animals		-			
13. Other Animals					
				c	
		_			

- 1) Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research treatment acceptable standards governing the care, treatment, and use of animals, including appropriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research treatment acceptable standards governing the care, treatment, and use of animals, including appropriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research treatment acceptable standards governing the care, treatment, and use of animals, including appropriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research treatment acceptable standards governing the care, treatment, and use of animals, including appropriate use ASSURANCE STATEMENTS and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.

 - 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). A summary of all the exceptions is attached to this annual report. In addition to identifying the IACUC constand expensions this expensions the IACUC constand expensions this expensions the IACUC constand expen principal investigator and approved by the institutional Animal Care and use Committee (IACUC). A summary or all the exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.
 - 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other

4)	The attending veterinarian for this re	search facility has appropriate a	Idinoity to over-	
٠,	aspects of animal care and use.		PERSONAL PROPERTY OFFICIAL	i i
		CERTIFICATION B	ASSESSED AND AND AND AND AND AND AND AND AND AN	-
	,	(Chief Executive	Officer or Legally Responsible Institutional official) above is true, correct, and complete (7 U.S.C. Section 2143)	DATE SIGNED
	/		NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Pri	int)
SIGN	NATURE OF C.E.Q. OR INSTITU	JTIONAL OFFICIAL	NAME & TITLE OF SIZE	111091041
10,0.			The Minds DVM	11/2
1		m = 1	Mater Mi Floses DV	PART 1 - HEADQUARTERS
1				1743

APHIS FORM 7023 (AUG 91)

port is required by law (7 USC 2143). Failure to report according to the regulations can n an order to cease and desist and to be subject to penalties as provided for in Section 215.

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE See attached form for additional information. interagency Report Control No.:

1. CERTIFICATE NUMBER: 93-R-0482 CUSTOMER NUMBER: 22624

FORM APPROVED OMB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

Kosan Biosciences 3832 Bay Center Place Hayward, CA 94545

Telephone: (510) -731-5306

EPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, or experimentation, or held for these purposes. Attach additional sheets if necessary)

		FACILIT	Y LOCATIONS (Sites) - See A	APHIS Form 7023A	
•			LEACH ITY (Attach addition	al sheets if necessary of use at the	F.
W 4A1 C 11	SED BY OR UNDER CO	ONTROL OF RESEARCE	T PAULTT TO THE UPON	E. Number of animals upon which teaching, experiments,	
Animals Covered By The Animal Welfare Regulations	B. Number of animal being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not ye used for such purposes.	C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use or pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals an for which appropriate anesthetic, analgesic, or trangulizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for wh the use of appropriate anesthetic, analgesic, or tranquiliz drugs would have adversely affected the procedures, res or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasc such drugs were not used must be attached to this report	TOTAL NUMBEF OF ANIMALS (COLUMNS C + D + E)
		14_	1		10
Dogs					0
Cats					10
Guinea Pigs				4	1210
. Hamsters	1-	12	193	¥ .	
. Rabbits	13	1-12			
9. Non-human Primate	5				0
10. Sheep					10
11. Pigs					10
12. Other Farm Animal	5				10
13. Other Animals					
				riate use of anestetic, analgesic, and tranquilizing drugs, prior to, du	. and following 8ct

- Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anestetic, analgesic, and tranquilizing drugs, prior to, during, and following actual resteaching, testing, surgery or experimentation were followed by this research facility teaching, testing, surgery, or experimentation were followed by this research facility.
- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and a locality is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations the IACLIC_approved exceptions this summan. Inis radiing is agnering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and a linitiational Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary brief exclanation of the exceptions. So well so the species and number of animals efforted 2) Each principal investigator has considered alternatives to painful procedures.
- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL

(Chief Executive Officer or Legaliy Responsible Institutional Official)

NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)

DATE SIGN Sept 3

SIGNATURE OF C.E.P. OR INSTITUTIONAL OFFICIAL

Bruce MacMillan

w (Replaces VS FORM 18-23 (OCT 88), which is obsolete.)

APHIS FORM 7923 (AUG 91)

Interagency Report Control No.:

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. CERTIFICATE NUMBER: CUSTOMER NUMBER:

M P Biomedicals

15 Morgan Street

Irvine, CA 92618

93-R-0483

23949

FORM APPROVED OMB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY

(TYPE OR PRINT)

ID: 23949

550 Center Hall Road Cochranville, PA 19330

County: Chester

Telephone:(610)593-2009

Telephone: (330) -562-1500

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, or experimentation, or held for these purposes. Attach additional sheets if necessary)

FACILITY LOCATIONS (Sites) - See Atached Listing

REPORT OF ANIMALS	USED BY OR UNDER	CONTROL OF RESEAR	RCH FACILITY (Attach addition	al sheets if necessarv or use APHIS Form 7023A)	
4. Animals Covered By The Animal Welfare Regulations	B. Number of animal being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not ye used for such purposes.	C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use or pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals an for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for wh the use of appropriate anesthetic, analgesic, or tranquiliz drugs would have adversely affected the procedures, res or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reast such drugs were not used must be attached to this report	F. TOTAL NUMBER OF ANIMALS (COLUMNS C + D + E)
. Dogs					
Cats					
Guinea Pigs					
Hamsters					
Rabbits		253	1		254
Non-human Primates	·				
. Sheep		7			7
. Pigs					
.,Other Farm Animals					
. Other Animals					
Goats		66			66
-					
	·				

SSURANCE STATEMENTS

- 1) Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anestetic, analgesic, and tranquilizing drugs, prior to, during, and following actual resert teaching, testing, surgery, or experimentation were followed by this research facility.
- 2) Each principal investigator has considered alternatives to painful procedures.
- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approximation. Institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary in brief explanation of the exceptions, as well as the species and number of animals affected.
- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official)

NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)

DATE SIGNED

obert W. Beattle Division Manager, Life Science Products

11/17 ja 4

HIS FORM 7023 (AUG 91)

IGNATURE

(Replaces VS FORM 18-23 (OCT 88), which is obsolete.)

(Julio

port is required by law (7 USC 2143). Failure to report according to the regulations can porces required by law (1 030 2143). Tenure to report according to the regulations can in an order to cases and desist and to be subject to penalties as provided for in Section 21:

UNITED STATES DEPARTMENT OF AGRICULTURE UNITED STATES DEPARTMENT OF ASSAULT THE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

See attached form for

additional information.

1. CERTIFICATE NUMBER: 93-R-0484

FORM APPROVED OMB NO. 0579-0038

Interagency Report Control No.:

CUSTOMER NUMBER: 21877

2125 Delaware Ave., Suite B Santa Cruz, CA 95060

Telephone: (831) -426-6838

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, or experimentation, or held for these purposes. Attach additional sheets if necessary)

	a locations where animals	Mete Uppen	See At	school Dames	
ORTING FACILITY (LIST	A TOOLS	FACILIT	YLOCATIONOT	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying. Pain or distress to the animals and for which accompanying pain or distress to the animals and for which accompanying pain or distress to the animals and for which accompanying pain or distress to the animals and for which accompanying pain or distress to the animals and the research, or interpretation of the teaching, research, experiments or interpretation of the teaching, research, experiments and the resist of the procedures.	•
			WEACH ITY (Attach additions	E. Number of snimsts upon which teaching, experiments. E. Number of snimsts upon which teaching, experiments, and for which teaching the snimsts and for which the snimsts and for which the snimsts of tranquitizes.	TOTAL NUMB
	· · · · · · · · · · · · · · · · · · ·	CONTROL OF RESEARCH	H PAOLE.	E. Number of animals upon which tacturing research, surgery or tests were conducted involving research, surgery or tests were conducted involving scoompanying pain or distract to the animals and for win scoompanying pain or distract or transplaint the use of appropriate anesthetic, analyses, res the use of appropriate anesthetic, research, experiments, and there adversely effected the procedures.	OF ANIMAL
OF ANIMALS US	SED BY OR UNDER S	C Number of	D. Which experiments.	research, surgery pain or distress to an agreeic, or tranquins accompanying pain or distress to an agreeic, or tranquins accompanying paint an assistantic, an algebraic research, experiments, the use of appropriate an accompanying would have adversely affected the procedures and accompanying the procedures are accompanied to the research accompanies and the research accompanies are accompanies and the research accompan	(COLUMN C+D+E
Animals Covered By The Animal Welfare Regulations	conditioned, or held for use in teaching, testing, experiments, research, or	research, experiments, or tests were conducted invoking no pain,	econductorying pain or eccompanying pain or distress to the animals an for which appropriate enesthetic, enelgesic, or trangullizing drugs were	the use of appropriate anestreuch and the procedures the use of appropriate anestreuch affected the procedures, drugs would have adversely affected the procedures or interpretation of the teaching, research, experiments, or interpretation of the procedures surgery, or tests. (An explanation of the procedures producing pain or distress in these srimals and the reast producing pain or distress in these srimals and the reast auch drugs were not used must be attached to this report such drugs were not used must be attached to this report.	C+D12
	used for such purposes.	pain-relieving drugs.	used.		
. Dogs	-	1			+
5. Cats					+
6. Guinea Pigs		T_{-}			-
7. Hamsters					4
8. Rabbits				0	-
9. Non-human Prim	nates		4		-+4
10. Sheep		10		0	-
11. Pigs	`		4		
12. Other Farm A	nimals 4	0	<u>_</u>	6	
Goats					-
13. Other Anima	ils				
				d tranquilizing drugs, prior	r to, during, and following
				ndete use of enestatic, energesic, and usually	
ARSURANCE	STATEMENTS	dards governing the care, tre openimentation were followed a considered alternatives to	atment, and use of animals, including the this research facility.	appropriate use of enestatic, energesic, and tranquilizing drugs, prior exceptions to the standards and regulations be specified and explain exceptions to this annual report. In addition to identifying the IACUC-	ed by the principal invesporations, the
1) Profe	esionally acceptable star	darios governmentation were followed properties to the considered alternatives alternative alternat	painful procedures.	exceptions to the stanuar report. In addition w	her aspects of animal C

- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulation to identifying the IACUC-approved exceptions, this substitutional Animal Care and Use Committee (IACUC). A summery of all such exceptions is attached to this annual report. In addition to identifying the IACUC approved exceptions are attached to this annual report. In addition to identifying the IACUC approved exceptions are attached to this annual report. ASSURANCE STATEMENTS
 - The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other espects of animal care as Each principal investigator has considered alternatives to painful procedures.

annopriate authority to annopriate	TERS RESEARCH Honel Official)
B SPP OF	OQUARTER Despossible institution
CERTIFICATION DI CONCOR	or Legally Response
Chief Executive Union	OCUARTERS RESEARCH 1997 (1997) OF Legally Responsible Institutional Official)

has appropriate sustant	DUARTERS RESEARCH	tutional Official			lo-
CERTIFICATION BY HEAD	Legally Responsible	OFFICH	AL (Type or Print)		11
CHAI EXECUTE		R INSTITUTE			
	Patrick	Encepty			
-1	PARCE	109			_
AL	1 1 4 1			חבר	- h

SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIA PX 18-23 (OCT 88), which is obsciets.)

Interagency Report Control No.:

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE 1. CERTIFICATE NUMBER: 93-R-0485 CUSTOMER NUMBER: 24406

FORM APPROVED OMB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

Genomics Inst. Of The Novartis Reseach Foundation 10675 John Jay Hopkins Drive San Diego, CA 92121

Telephone: (858) -812-1777 2500

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, or experimentation, or held for these purposes. Attach additional sheets if necessary)

FACILITY LOCATIONS (Sites) - See Atached Listing

·	9 ^{73.7}	- PEOFAD	CH EACH ITY (Attach addition	al sheets if necessary or use APHIS Form 702577	
Animals Covered By The Animal Welfare Regulations	SED BY OR UNDER C being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not ye used for such purposes.	ONTROL OF RESEAR C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use or pain-relieving drugs.	D. Nümber of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals an for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for whithe use of appropriate anesthetic, analgesic, or tranquiliz drugs would have adversely affected the procedures, resor interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reast such drugs were not used must be attached to this report	F. TOTAL NUMBER OF ANIMALS (COLUMNS C + D + E)
Dogs					
. Cats					
5. G _ļ uinea Pigs			333		333
7. Hamsters	178		867		87
8. Rabbits	6		8461		
9. Non-human Primates					
10. Sheep					
11. Pigs					
12. Other Farm Animals					
13. Other Animals					

- Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anestetic, analgesic, and tranquilizing drugs, prior to, during, and following actual reservables tenting ASSURANCE STATEMENTS teaching, testing, surgery, or experimentation were followed by this research facility.

 - This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and applications and regulations are standards and regulations are standards and regulations are standards and regulations are standards and regulations. Each principal investigator has considered alternatives to painful procedures. Institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary in both explanation of the expension of the expension of the exceptions.
 - 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL

(Chief Executive Officer or Legally Responsible Institutional Official)

SIGNATURE OF, C.E.O.) OR, INSTITUTIONAL OFFICIAL

NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print) Karl H. Olsen Chief Financial afficer 11/18

Interagency Report Control No.:

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE 1. CERTIFICATE NUMBER: 93-R-0486

24058

FORM APPROVED OMB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY

(TYPE OR PRINT)

Portola Pharmaceuticals 256 East Grand Avenue San Francisco, CA 94080

CUSTOMER NUMBER:

Telephone: (650) -244-6489

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, or experimentation, or held for these purposes. Attach additional sheets if necessary)

FACILITY LOCATIONS (Sites) - See Atached Listing

REPORT OF ANIMALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY (Attach additional sheets if necessary or use APHIS Form 7023A)							
Animals Covered By The Animal Welfare Regulations	B. Number of animal being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not ye used for such purposes.	C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use or pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals an for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for wh the use of appropriate anesthetic, analgesic, or tranquiliz drugs would have adversely affected the procedures, res or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reast such drugs were not used must be attached to this report.)	F. TOTAL NUMBER OF ANIMALS (COLUMNS		
4. Dogs	0	24	3		27		
5. Cats							
6. Guinea Pigs	0		310		310		
7. Hamsters							
8. Rabbits							
9. Non-human Primates							
10. Sheep					ļ		
11. Pigs							
12. Other Farm Animals							
13. Other Animals							
				c .			
,	1						

ASSURANCE STATEMENTS

- 1) Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anestetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research teaching, testing, surgery, or experimentation were followed by this research facility.
- 2) Each principal investigator has considered alternatives to painful procedures.
- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approximately Institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary in brief explanation of the exceptions, as well as the species and number of animals affected.

4) The attending veterinarian for this research facility has appropriate authority to e	insure the provision of adequate veterinary care and to oversee the adequacy of other aspects	of animal care and use.
CERTIFICATION BY (Chief Executive Of	HEADQUARTERS RESEARCH FACILITY OFFICIAL fficer or Legally Responsible Institutional Official)	·
SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED
APHIS FORM 7023 (Replaces VS FORM 18-23 (OCT 88), which is obsolete.) (AUG 91)		<i>I I</i>

NOV _ 1 2004

Interagency Report Control No.:

1. CERTIFICATE NUMBER:

93-R-0487

FORM APPROVED OMB NO. 0579-0036

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

CUSTOMER NUMBER: 3653

ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

Gibbon Conservation Center P. O. Box 800249 Santa Clarita, CA 91380

Telephone: (661) -296-2737

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, or experimentation, or held for these purposes. Attach additional sheets if necessary)

FACILITY LOCATIONS (Sites) - See Atached Listing

	OFF BY OF HINDER CO	ONTROL OF RESEARC	CH FACILITY (Attach additiona	Il sheets if necessarv or use APHIS Form 7023A)	
		C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use or pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals an for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for wh the use of appropriate anesthetic, analgesic, or tranquiliz drugs would have adversely affected the procedures, res or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reast such drugs were not used must be attached to this report	F. TOTAL NUMBE OF ANIMALS (COLUMNS C + D + E
4. Dogs					
5. Cats			·	,	
6. Guinea Pigs				-	
7. Hamsters					
8. Rabbits					10
9. Non-human Primates	Ō	0	0	<u> </u>	+
10. Sheep					
11. Pigs					
12. Other Farm Animals					+
13. Other Animals					

ASSURANCE STATEMENTS

- Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anestetic, analgesic, and tranquilizing drugs, prior to, during, and following actual reservations. teaching, testing, surgery, or experimentation were followed by this research facility.
- 2) Each principal investigator has considered alternatives to painful procedures.
- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and appropriate the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and appropriate the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and appropriate the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and appropriate the standards and regulations under the Act, and it has required that exceptions to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations are standards are standards and regulations are standards are standards. Institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary in brief explanation of the exceptions, as well as the species and number of animals affected.
- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL

ORTOR

(Chief Executive Officer or Legally Responsible Institutional Official)

SIGNATURE OF Ø.E.O. OR INSTITUTIONAL OFFICIAL

NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)

DATE SIGNED

APHIS FORM 7023

(Replaces VS FORM 18-23 (OCT 88), which is obsolete.)

(AUG 91)

TRATION WAS CANCEURO NOV 2003

Interagency Report Control No.:

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE 1. CERTIFICATE NUMBER: 93-R-0488 CUSTOMER NUMBER: 24821

FORM APPROVED OMB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

Judith . Segall 1442-A Walnut Street, #474 Berkeley, CA 94709

Telephone: (510) -644-1230

REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, or experimentation, or held for these purposes. Attach additional sheets if necessary)

FACILITY LOCATIONS (Sites) - See Atached Listing

		ONTROL OF RESEARC	CH FACILITY (Attach additiona	al sheets if necessary or use APHIS Form 7023A)	
		C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use or pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals an for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for wh the use of appropriate anesthetic, analgesic, or tranquiliz drugs would have adversely affected the procedures, res or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reast such drugs were not used must be attached to this report	F. TOTAL NUMBER OF ANIMALS (COLUMNS
4. Dogs					
5. Cats					
6. Guinea Pigs					7
7. Hamsters	4	0	7	0	
8. Rabbits					<u> </u>
9. Non-human Primates					
10. Sheep					
11. Pigs					<u> </u>
12. Other Farm Animals					-
			_	· ·	
13. Other Animals					-
					-
					1

- Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anestetic, analgesic, and tranquilizing drugs, prior to, during, and following actual reserved teaching, testing, surgery, or experimentation were followed by this research facility. ASSURANCE STATEMENTS
 - 2) Each principal investigator has considered alternatives to painful procedures.
 - This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approximately approxim Institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary in brief explanation of the exceptions, as well as the species and number of animals affected.
 - 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official)

SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL

NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)

Judith Segall, Owner

DATE SIGNED 12/15/04

(Replaces VS FORM 18-23 (OCT 88), which is obsolete.)

APHIS FORM 7023 (AUG 91)

This report is required. Naw (7 USC 2143). Failure to report according to the regulations can result in an order to cease and desist and to be subject to penalties as provided for in Section 215.

See attached form for additional information. Interagency Report Control No.:

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. CERTIFICATE NUMBER: 93-R-0489 CUSTOMER NUMBER: 25422

FORM APPROVED OMB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY

(TYPE OR PRINT)

Gnfols Biologicals, Inc. 2410 Lillyvale Avenue Los Angeles, CA 90032

Telephone: (323) -225-2221

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, or experimentation, or held for these purposes. Attach additional sheets if necessary)

FACILITY LOCATIONS (Sites) - See Atached Listing

A. Animals Covered By The Animal Welfare Regulations	B. Number of animal being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not ye used for such purposes.	C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use or pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals an for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for wh the use of appropriate anesthetic, analgesic, or tranquiliz drugs would have adversely affected the procedures, res or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reason such drugs were not used must be attached to this report.)	F. TOTAL NUMBEI OF ANIMALS (COLUMNS C + D + E)
4. Dogs				·	
5. Cats					
6. Guinea Pigs	4	748	0	0	748
7. Hamsters					
8. Rabbits	56	1573	0	0	1573
9. Non-human Primates					
10. Sheep					
11. Pigs					
12. Other Farm Animals					
13. Other Animals					
				e	
	 	1			
		 			

ASSURANCE STATEMENTS

- 1) Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anestetic, analgesic, and tranquilizing drugs, prior to, during, and following actual reserved teaching, testing, surgery, or experimentation were followed by this research facility.
- 2) Each principal investigator has considered alternatives to painful procedures.
- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and appropriate institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary inbrief explanation of the exceptions, as well as the species and number of animals affected.
- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

\cap	CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official)	
SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED
Ann A. K.	James H. Sesic Director, Regulatory Affairs	0: 0ct 200f

APHIS FORM 7023 (AUG 91) (Replaces VS FORM 18-23 (OCT 88), which is obsolete.)

DOT 4 2004

This report is required by law (7 USC 2143). Failure to report according to the regulations can result in an order to cease and desist and to be subject to penalties as provided for in Section 21! See attached form for additional information. Interagency Report Control No.:

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE 1. CERTIFICATE NUMBER: 93-R-0490 CUSTOMER NUMBER: 1131

FORM APPROVED OMB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

Scios. Inc. 6500 Paseo Padre Parkway Fremont, CA 94555

Telephone: (510) -739-2100



3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, or experimentation, or held for these purposes. Attach additional sheets if necessary)

FACILITY LOCATIONS (Sites) - See Attached Listing

	ISED BY OR HNDER C	ONTROL OF RESEAR	CH FACILITY (Attach additions	al sheets if necessary or use APHIS Form 7023A)	لــــــــــــــــــــــــــــــــــــــ
A. Animals Covered By The Animal Welfare Regulations	B. Number of animal being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not ye used for such purposes.	C. Number of animals upon which teaching, research, experiments, or tasts were conducted involving no pain, distress, or use or pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals an for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for whithe use of appropriate enesthetic, analgesic, or tranquiliz drugs would have adversely effected the procedures, resor interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reast such drugs were not used must be attached to this report	TOTAL NUMBER OF ANIMALS (COLUMNS C + D + E)
4. Dogs					3.
5. Cats					176
6. Guinea Pigs			174		1767
7. Hamsters				1	7100
8. Rabbits	1		Corrected into	desplace 12/17/24 @	
9. Non-human Primates			/ /		
10. Sheep					
11. Pigs					
12. Other Farm Animals					
13. Other Animals					

ASSURANCE STATEMENTS

- 1) Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anestetic, analgesic, and tranquilizing drugs, prior to, during, and following actual results and transport of the care, treatment, and use of animals, including appropriate use of anestetic, analgesic, and tranquilizing drugs, prior to, during, and following actual results. teaching, testing, surgery, or experimentation were followed by this research facility.
- 2) Each principal investigator has considered alternatives to painful procedures.
- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and applications and regulations are reported and explained by the principal investigator and application and applications are reported and explained by the principal investigator and application and applications are required that exceptions are required to this annual report. In addition to identifying the IACUC-approved exceptions, this summary includes the required that exceptions are required to this annual report. In addition to identifying the IACUC-approved exceptions, as well as the species and number of animals affected.
- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official)

Andrew A. Protter, Ph.D.

DATE SIGNED

OR INSTITUTIONAL OFFICIAL

NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)

Vice President Biology

11-24-0

Interagency Report Control No.:

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. CERTIFICATE NUMBER: 93-R-0491

CUSTOMER NUMBER: 26668

FORM APPROVED OMB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY

(TYPE OR PRINT)

Phenomix Corporation 5871 Oberlin Drive, Suite 200 San Diego, CA 92121

Telephone: (858) -731-5211

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, or experimentation, or held for these purposes. Attach additional sheets if necessary)

FACILITY LOCATIONS (Sites) - See Atached Listing

REPORT OF ANIMALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY (Attach additional sheets if necessary or use APHIS Form 7023A)								
A. Animals Covered By The Animal Welfare Regulations	B. Number of animal being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not ye used for such purposes.	C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use or pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals an for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for wh the use of appropriate anesthetic, analgesic, or tranquiliz drugs would have adversely affected the procedures, res or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reast such drugs were not used must be attached to this report.)	OF ANIMALS (COLUMNS C + D + E)			
4. Dogs	0	0	0	0	0			
5. Cats	0	0	0	0	0			
6. Guinea Pigs	0	0	0	0	0			
7. Hamsters	0	0	0	0	0			
8. Rabbits	0	0	0	0	0			
9. Non-human Primates	0	0	0	0	0			
10. Sheep	0	0	0	0	0			
11. Pigs	0	0	0	0	0			
12. Other Farm Animals	0	0	0	0				
13. Other Animals	0	0	0	O	0			

ASSURANCE STATEMENTS

- 1) Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anestetic, analgesic, and tranquilizing drugs, prior to, during, and following actual reserved teaching, testing, surgery, or experimentation were followed by this research facility.
- 2) Each principal investigator has considered alternatives to painful procedures.
- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and apr Institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary inbrief explanation of the exceptions, as well as the species and number of animals affected.
- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official)

SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL

NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)

DATE SIGNED

Linch

Julie M Cherrington

EUP R+D

16-14-04

Set reverse side for additionalinformation

Interagency Report Control No 0180-DOA-AN

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. REGISTRATION NO 27/62

FORM APPROVED OMB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

2. HEADQUARTERS RESEARCH FACILITY (Name and Address, as registered with USDA include Zip. Code). State University, San Marcos 333 Twin Oaks Valley Road San Marcos, CA 92096

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets if necessary.)

FACILITYLOCATIONS (Sites)

By The Anima Welfare Regulations Surgery, or tests were conducted involving anesthatic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or distress to the animals experiments, surgery, or tests. Were conducted involving an experiments, or distress to the animals experiments, surgery, or tests were conducted involving an experiments, or interpretation of the teaching, research, experiments, or distress to the animals.	California Stat	e Univers	574, 5an	Marcos		
A. Animals Covered By The Anima Welfare Regulations Welfare Regulations B. Number of animals upon which teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquillizing drugs were were used for such yet used for such yet used for such	Saleman Valla	Pppm 21	6 or 313			
A. Animals Covered By The Anima Welfare Regulations Welfare Regulations B. Number of animals upon which teaching, research, which experiments, or teaching, testing, experiments, or tess were conducted involving accompanying pain or distress to the animals and for which the use of appropriate conducted involving accompanying pain or distress to the animals and for which the use of appropriate conducted involving accompanying pain or distress to the animals and for which the use of appropriate conducted involving accompanying pain or distress to the animals and for which the use of appropriate conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthatic, analgesic, or interpretation of the teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthatic, analgesic, or interpretation of the teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthatic, analgesic, or interpretation of the teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthatic, analgesic, or interpretation of the teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthatic, analgesic, or interpretation of the teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthatic, analgesic, or interpretation of the teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthatic, analgesic, or interpretation of the teaching, research, surgery, or tests were conducted involving ancompanying pain or distress to the animals and the velocity analysis of	VIIII HUNT	MANTE CONTROL OF	BESEARCH FACILITY	(Attach additional sheets if nec	essary or use APHIS FORM 7023A)	
	A. Animals Covered By The Anima	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such	C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress. or use of pain-	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were	experiments, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in those animals and the reasons such drugs were not used	TOTAL NO OF ANIMALS (Cols. C + D + E)
4. Dogs	4. Dogs					
5. Cats						
6. Guinea Pigs AD REGULATED SPECIES		10	REC	DULATEL	SPECIES	
7. Hamsters 8. Rabbits	8. Rabbits	NI	RING	5 FY	2004	
9. Non-human Primates	9. Non-human Primates	D00				
10. Sheep	10. Sheep					
11., Pigs	11., Pigs					
12. Other Farm Animals	12. Other Farm Animals					
13 Other Animals	13 Other Animals		 		e.	
			-			

ASSURANCE STATEMENTS

- 1) Professionally acceptable standards governing the care, treatment, and use of animals including appropriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility
- 2) Each principal investigator has considered alternatives to painful procedures.
- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.
- 4) The attending veterinarianfor this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of

4) The attending veterinarianfor this research facility has appropriate authors	ority to ensure the provision of addiquate	
Office	ADQUARTERS RESEARCH FACILITY OFFICIAL ser or Legally Responsible Institutional Official) sets true, correct, and complete (7 U.S.C. Section 2143).	
SIGNATURE OF CEO OR INSTITUTIONAL OFFICIAL	NAME & TITLE OF CEO OF INSTITUTIONAL OFFICIAL (TYPE OF PRINT) Patricia E. Worden ASSOCIATE Vice President by Resau	DATE SIGNED

Interagency Report Control No.:

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE 1. CERTIFICATE NUMBER: 93-R-0493 CUSTOMER NUMBER: 8819

FORM APPROVED OMB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

Metabolex, Inc. 3876 Bay Center Place Hayward, CA 94545

Telephone: (510) -293-8800



3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, or experimentation, or held for these purposes. Attach additional sheets if necessary)

FACILITY LOCATIONS (Sites) - See Atached Listing

REPORT OF ANIMALS	USED BY OR UNDER C	ONTROL OF RESEARC	CH FACILITY (Attach additiona	sheets if necessary or use APHIS Form 7023A	
A. Animals Covered By The Animal Welfare Regulations	B. Number of animal being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not ye used for such purposes.	C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use or pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals an for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for wh the use of appropriate anesthetic, analgesic, or tranquiliz drugs would have adversely affected the procedures, res or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reast such drugs were not used must be attached to this report.	TOTAL NUMBER OF ANIMALS (COLUMNS C+D+E)
4. Ďogs					
5. Cats					
6. Guinea Pigs					60//
7. Hamsters	4		80		89
8. Rabbits	,				1
9. Non-human Primates					
10. Sheep					
11. Pigs					
12. Other Farm Animals					
				· .	
13. Other Animals				e	
		,			

ASSURANCE STATEMENTS

- Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anestetic, analgesic, and tranquilizing drugs, prior to, during, and following actual rese teaching, testing, surgery, or experimentation were followed by this research facility.
- 2) Each principal investigator has considered alternatives to painful procedures.
- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and ap Institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary inc brief explanation of the exceptions, as well as the species and number of animals affected.
- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official)

NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)

SIGNATURE_OF C.E.O. OR INSTITUTIONAL OFFICIAL

HAROLD VAN WART President and CEO

See reverse side for additional information. Interagency Report Control No 0180-DOA-AN

UNITED STATES DEPARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. REGISTRATION NO. 93-V-003 1327

FORM APPROVED OMB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT) 2. HEADQUARTERS RESEARCH FACILITY (Name and Address, as registered with USDA, include Zip Code)

Department of Veterans Affairs Cenral Office 810' Jermont Avenue N.W. Washington, DC 20420

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets if necessary.)

FACILITY LOCATIONS (Sites)

VA Palo Alto Health Care System (640)
3804 Miranda Avenue
Palo Alto, CA 94304

A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which leaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report).	TOTAL NO. OF ANIMALS (Cols. C + D + E)
4. Dogs	0	0	0	0	0
5. Cats	0	0	0	0	0 -
6. Guinea Pigs	0	0	0	0	0
7. Hamsters	0	0	0	0 .	0
8. Rabbits	0	2	38	0	40
9. Non-human Primates	0	0	0	0	0
10. Sheep	0	0	0	0	0
11. Pigs	0	0	7	0	7
12. Other Farm Animals	0	0	0	0	0
13. Other Animals	0	0	С	0	0

SSURANCE STATEMENTS

- 1) Professionally acceptable standards governing the care, treatment, and use of animals, including approriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
- 2). Each principal investigator has considered alternatives to painful procedures
- 3). This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.
- 4). The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

CERTIFICATION BY HEADQUARTES RESEARCH FACILITY OFFICIAL

(Chief Executive Officer or Legally Responsible Institutional Official)

Legally Responsible Institutional Official)

DEC - 1 2004

SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL

NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)

Elizabeth Joyce Freeman

Director

1/10/09

DATE SIGNED

This report is required by law (7 USC 2143) Failure to report according to the regulations can result in an order to cease and desist and to be subject to penalties as provided for in Section 2150

See reverse side for additional information Interagency Report Control No 0180-DOA-AN

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

ANNUAL REPORT OF RESEARCH FACILITY

(TYPE OR PRINT)

1. REGISTRATION NO 93-V--005

1324

FORM APPROVED OMB NO. 0579-0036

378

2. HEADQUARTERS RESEARCH FACILITY (Name and Address, as registered with USDA, include Zip Code)

Department of Veterans Affairs Central Office 810 Vermont Avenue

20420 Washington, D.C.

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets if necessary.)

FACILITY LOCATIONS (Sites) VA Medical Center - 662 CA 94121 San Francisco, REPORT OF ANIMALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY (Attach adiditional sheets if necessary or use APHIS FORM 7023A.) Number of animals upon which teaching, F. Number of Number of Number of animals upon Ā experiments, research, surgery or tests were animals being animals upon which experiments, conducted involving accompanying pain or distress to the animals and for which the use of appropriate bred. which leaching. teaching, research, TOTAL NO. Animals Covered surgery, or tests were conducted involving conditioned, or research, By The Animal anesthetic, analgesic, or tranquilizing drugs would OF ANIMALS have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, or held for use in Welfare Regulations teaching, testing, tests were accompanying pain or experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these (Cols. C + D + E) conducted distress to the animals experiments. research, or involving no pain, distress, or and for which appropriate surgery but not anesthetic, analgesic, or animals and the reasons such drugs were not used yet used for such use of paintranquilizing drugs were must be attached to this report). purposes. relieving drugs 0 ' Dogs

4. Dogs		+		
5. Cats	0			
6. Guinea Pigs	0			
7. Hamsters	0	58		53
	0	8	100	108
8. Rabbits				
9. Non-human Primates	0			23
16. Sheep	0	15	8	23
11. Pigs	0			
12. Other Farm Animals	<u> </u>			
12. Other rains and				
13. Other Animals	l			

ASSURANCE STATEMENTS

Gerbils

Professionally acceptable standards governing the care, treatment, and use of animals, including approriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility

173

2). Each principal investigator has considered alternatives to painful procedures

0

205

- 3). This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.
- 4). The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of

animal care and use.		
	(Chinf Wwo autive	BY HEADQUARTES RESEARCH FACILITY OFFICIAL Officer or Legally Responsible Institutional Official) The above is true, correct/and complete (7 U.S.CSection 2143)
SIGNATURE OF C.E.O. OR INSTITU		NAME & LITLE OF C.E.O. OK INSTRUTIONAL OFFICIAL (Type or Print) A Sheila M. Cullen Aledical Center Director A Callen

See reverse side for additional information

Interagency Report Control No 0180-DOA-AN

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

ANNUAL REPORT OF RESEARCH FACILITY

(TYPE OR PRINT)

1. REGISTRATION NO. 93-V-007

132Cp

FORM APPROVED OMB NO. 0579-0036

2. HEADQUARTERS RESEARCH FACILITY (Name and Address, as registered with USDA, include Zip Code)

Department of Veterans Affairs 810 Vermont Ave, N.W. Washington, DC 20420

. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets if necessary.)

FACILITY LOCATIONS (Sites)

500 VA Long Beach Healthcare System 5901 E 7th Street Long Beach, CA 90822 EPORT OF ANIMALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY (Attach additional sheets if necessary or use APHIS FORM 7023A.) Number of animals upon which teaching, Number of G Number of D. Number of animals upon experiments, research, surgery or tests were animals being animals upon which experiments, conducted involving accompanying pain or distress which teaching, bred, teaching, research, to the animals and for which the use of appropriate TOTAL NO. Animals Covered conditioned, or research. anesthetic, analgesic, or tranquilizing drugs would By The Animal surgery, or tests were OF ANIMALS held for use in experiments, or conducted involving have adversely affected the procedures, results, or Welfare Regulations interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of teaching, testing, accompanying pain or lests were (Cols. C + D + E) experiments, conducted distress to the animals involving no and for which appropriate research, or the procedures producing pain or distress in these surgery but not pain, distress, or anesthetic, analgesic, or animals and the reasons such drugs were not used yet used for such use of paintranquilizing drugs were must be attached to this report). relieving drugs purposes. used 3 Dogs Cats Guinea Pigs Hamsters 46 46 Rabbits Non-human Primates 10. Sheep Pigs 12. Other Farm Animals 13. Other Animals

ASSURANCE STATEMENTS

- Professionally acceptable standards governing the care, treatment, and use of animals, including approriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility
- 2) Each principal investigator has considered alternatives to painful procedures
- 3). This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.
- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use

CHARGE CAME ON DV HEADON ART	ES RESEARCH FACILITY OFFICIAL
CERTIFICATION BY HEADQUART	December 1 (1) (1) (1) (1) (1) (1)
(Chief Executive Officer or Legal)	y Responsible Institutional Official)

I certify that the above is true, correct, and complete (7 U.S.C. Section 2143)

DFC - 1 2004

SIGNATURE OF C.F.O. OR INSTITUTIONAL OFFICIAL

NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)

DATE SIGNED

Ronald B. Norby, Director

See reverse side for additional information Interagency Report Control No 0180-DOA-AN

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. REGISTRATION NO. 95-4-0008 1327 FORM APPROVED OMB NO 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

2. HEADQUARTERS RESEARCH FACILITY (Name and Address, as registered with USDA Dept of Veterans Affairs
Research + Development Computing Center (1518)
103 South Gaystret - 4th Ploor, Room 400
Baltimore MD 21202-4051

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets if necessary.)

FACILITY LOCATIONS (Siles)

11201 Benton St., Loma Linda CA 92357

Animals Covered By The Animal Welfare Regulations 4. Dogs 5. Cats	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report).	TOTAL NO. OF ANIMALS (Cols. C + D + E)
6. Guinea Pigs					
7. Hamsters		26			26
 Rabbits Non-human Primates 					
10. Sheep					
11. Pigs12. Other Farm Animals					
12. Other Farm France					
13. Other Animals Chinchillas			45		45

ASSURANCE STATEMENTS

- Professionally acceptable standards governing the care, treatment, and use of animals, including approriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and tellowing appropriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
- 2). Each principal investigator has considered alternatives to painful procedures
- 3). This lacility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the this facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.
- 4). The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use

_	CERTIFICATION BY HEADQUARTES RESEARCH FACILITY OFFICIAL
	THE RESEARCH FACILITY OF THE ADDITANTES RESEARCH FACILITY OF THE
	(Chief Executive Officer or Legally Responsible Institutional Official)
	Official Responsible Institutional Official
	Chief Executive Officer of Legany Responsible

I certify that the above is true, correct, and complete (7 U.S.C. Section 2143)

DFC - 1

SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL

NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print) Dean R. Stordahl

Medical Center Director

11/12/04

DATE SIGNED

This report is required by law (7 USC 2143). Failure to report according to the regulations can result in an order to cease and desist and to be subject to penalties as provided for in Section 2150. See reverse side for additional information. Interagency Report Control No 0180-DOA-AN

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. REGISTRATION NO. 93-V-0010

1329

FORM APPROVED OMB NO. 0579-0036

2. HEADQUARTERS RESEARCH FACILITY (Name and Address, as registered with USDA, include Zip Code)

ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

VA Greater LA Healthcare System Sepulveda Medical Center

16111 Plummer St.

91343 Sepulveda, CA

10/01/03 - 9/30/04 3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional

sheets if necessary.) FACILITY LOCATIONS (Sites) Buildings 1, 7, 47, 80, 103 Vervet Research Colony (VRC) REPORT OF ANIMALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY (Attach adiditional sheets if necessary or use APHIS FORM 7023A.) Number of animals upon which teaching, B. Number of C Number of D. Number of animals upon experiments, research, surgery or tests were animals being animals upon which experiments, conducted involving accompanying pain or distress which leaching, teaching, research, **Animals Covered** bred. to the animals and for which the use of appropriate TOTAL NO. anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures readuling pain or distress in these conditioned, or research, surgery, or tests were By The Animal OF ANIMALS conducted involving experiments, or held for use in Welfare Regulations teaching, testing, tests were accompanying pain or experiments, conducted distress to the animals (Cols. C + D + E) and for which appropriate research, or involving no the procedures producing pain or distress in these surgery but not pain, distress, or anesthetic, analgesic, or animals and the reasons such drugs were not used yet used for such use of paintranquilizing drugs were must be attached to this report). relieving drugs purposes. 4 2 Dogs 16 16 Cats 6. Guinea Pigs Hamsters Rabbits 589 335 254 Non-human Primates Sheep 11. Pigs 12. Other Farm Animals 13. Other Animals 2 2 Dolphin 2

ASSURANCE STATEMENTS

- Professionally acceptable standards governing the care, treatment, and use of animals, including approriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
- 2). Each principal investigator has considered alternatives to painful procedures.
- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the this facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations despective and approved by the Institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.
- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use

CERTIFICATION BY HEADQUARTES RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official)

I certify that the above is true, correct, and complete (7 U.S.C. Section 2143).

SIGNATURE OF C.E.O. OB INSTITUTIONAL OFFICIAL

NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)

DATE SIGNED

Charles M. Dorman, FACHE Director

This report is required by law (7 USC 2143). Failure to report according to the regulations can result in an order to cease and desist and to be subject to penalties as provided for in Section 2150 additional information

2. HEADQUARTERS RESEARCH FACILITY (Name and Address, as registered with USDA,

Interagency Report Control No 0180-DOA-AN

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. REGISTRATION NO. 93-V-0010

include Zip Code)

FORM APPROVED OMB NO 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

VA Greater LA Healthcare System

Sepulveda Medical Center 16111 Plummer St.

Sepulveda, CA 91343

10/01/03 - 9/30/04

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets if necessary.)

FACILITY LOCATIONS (Sites)

Buildings 1, 7, 47, 80, 103 Vervet Research Colony (VRC) REPORT OF ANIMALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY (Altach adiditional sheets if necessary or use APHIS FORM 7023A.) Number of animals upon which teaching, Number of Number of animals upon experiments, research, surgery or tests were animals being animals upon which experiments, conducted involving accompanying pain or distress to the animals and for which the use of appropriate bred. **Animals Covered** which teaching, teaching, research, TOTAL NO. conditioned, or research, By The Animal Welfare Regulations surgery, or tests were conducted involving anesthetic, analgesic, or tranquilizing drugs would OF ANIMALS held for use in experiments, or have adversely affected the procedures, results, or interpretation of the teaching, research, teaching, testing, tests were accompanying pain or experiments, conducted distress to the animals experiments, surgery, or tests. (An explanation of (Cols. C + D + E) involving no pain, distress, or research, or and for which appropriate the procedures producing pain or distress in these surgery but not anesthetic, analgesic, or animals and the reasons such drugs were not used yet used for such use of paintranquilizing drugs were must be attached to this report). purposes. relieving drugs 10... 4 4 2 Dogs 16 16 Cats Guinea Pigs Hamsters Rabbits 589 335 254 Non-human Primates 1 10. Sheep 11. Pigs 12. Other Farm Animals Other Animals 2 2 Dolphin 2 Sea1

ASSURANCE STATEMENTS

- Professionally acceptable standards governing the care, treatment, and use of animals, including approriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
- 2). Each principal investigator has considered alternatives to painful procedures.
- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.
- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

CERTIFICATION BY HEADQUARTES RESEARCH FACILITY OFFICIAL

(Chief Executive Officer or Legally Responsible Institutional Official) I certify that the above is true, correct, and complete (7 U.S.C. Section 2143).

1 3 2004

SIGNATURE OF C.E.O. OB INSTITUTIONAL OFFICIAL

NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)

DATE SIGNED

Charles M. Dorman, FACHE

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE 1. CERTIFICATE NUMBER: 95-F-0001 CUSTOMER NUMBER: 1205

FORM APPROVED OMB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

Tripler Army Medical Center Dept. Of Clinical Investigation (Mchk-Ci) **Department Of Clinical Investigation** #1 Jarrett White Road, Bldg 40 Tripler Army Hospital, HI 96859



3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, or experimentation, or held for these purposes. Attach additional sheets if necessary)

FACILITY LOCATIONS (Sites) - See Atached Listing

	B. Number of animal being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not ye used for such purposes.	C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use or pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals an for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for whithe use of appropriate anesthetic, enalgesic, or tranquilized uses would have adversely effected the procedures, residently interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reask such drugs were not used must be attached to this report	TOTAL NUI OF ANIM (COLUI C + D +
Dogs					
Cats					
Guinea Pigs					
Hamsters			10	0	10
. Rabbits	0	0	10		
. Non-human Primates					
). Sheep			39	0	3
1. Pigs	0	0	39		
2. Other Farm Animals					
3. Other Animals		0	14	. 0	_
Ferrets	0				

- Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anestetic, analgesic, and tranquilizing drugs, prior to, during, and following actually acceptable standards governing the care, treatment, and use of animals, including appropriate use of anestetic, analgesic, and tranquilizing drugs, prior to, during, and following actually acceptable standards governing the care, treatment, and use of animals, including appropriate use of anestetic, analgesic, and tranquilizing drugs, prior to, during, and following actually acceptable standards governing the care, treatment, and use of animals, including appropriate use of anestetic, analgesic, and tranquilizing drugs, prior to, during, and following actually acceptable standards governing the care, treatment, and use of animals, including appropriate use of anestetic, analgesic, and tranquilizing drugs, prior to, during, and following actually acceptable standards governing the care, treatment, and use of animals, including appropriate use of animals, and acceptable acceptable standards governing the care, treatment, and use of animals, including appropriate use of animals, and acceptable ASSURANCE STATEMENTS teaching, testing, surgery, or experimentation were followed by this research facility.

 - 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator 2) Each principal investigator has considered atternatives to painful procedures. It is traditional or the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary of the standards and the standards are standards and the standards and the standards are standards are standards and the standards are standards and the standards are standards are standards and the standards are standar
 - 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and

CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official)

NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)
JOHNIE S. TILLMAN, Colonel, MC

Acting Commander, Tripler Army Medical Ctr.

S FORM 7023 AUG 91)

SIGNATURE OF C.E.O. OF

(Replaces VS FORM 18-23 (OCT 88), which is obsolete.)

4 7 0004

DATE

UNITED STATES DEPARTMENT OF AGRICULTURE ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. CERTIFICATE NUMBER: 95-R-0003 CUSTOMER NUMBER: 18



FORM APPROVED OMB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

Queen'S Medical Center 1301 Punchbowl Street Honolulu, HI 96813

Telephone: (808) -538-9011



3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, or experimentation, or held for these purposes. Attach additional sheets if necessary)

FACILITY LOCATIONS (Sites) - See Atached Listing

b. Number of animal being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not ye used for such purposes.	C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use or pain-relieving drugs.	Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals an for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for whithe use of appropriate anesthetic, analgesic, or tranquilizings would have adversely affected the procedures, resor interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reast such drugs were not used must be attached to this report.)	F. TOTAL NUM OF ANIMA (COLUM C + D +
				0
				0
				0
				0
				0
				0
	:			0
				0
				0
		83	ç	83
	being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not ye used for such	being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but nut ye used for such purposes. animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use or pain-relieving	being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but nut ye used for such purposes. Definition of the provided conditioned or held for use in teaching, testing, experiments, or tests were conducted involving no pain, distress, or use or pain-relieving drugs. Definition of the provided conditions are the purposed or pain-relieving drugs. Definition of the provided eaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analysesic, or tranquilizing drugs were used.	conditioned, or heid for use in leaching, research, research, or surgery but nul ye used for such purposes. which teaching, research, surgery, or lests were conducted involving no pain, distress, or use or pain-relieving drugs. teaching, research, surgery, or lests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquitizing drugs were used. teaching, research, surgery, or lests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquitizing drugs were used. teaching, research, surgery, or lests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquitizing drugs were used.

- 1) Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anestetic, analgesic, and tranquilizing drugs, prior to, during, and following actual res teaching, testing, surgery, or experimentation were followed by this research facility.
- 2) Each principal investigator has considered alternatives to painful procedures.
- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and at Institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary i brief explanation of the exceptions, as well as the species and number of animals affected.
- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional Official)

GNATURE OF C.E.Q. OR INSTITUTIONAL OFFICIAL

NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)

Arthur A. Ushijima, President and CEO

HIS FORM 7023